SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to citil or to deepen or plug backy to a different reservoir. OIL NOTICE OF PRESENTS ROO. IN. 135 Grant. Santa Fe. New Mexico 87501 106 Serant. Santa Fe. New Mexico 87501 107 PROPERTY OF THE Sec 27 T24N R7W NMPM 108 Sec 17 February OF FEL Sec 27 T24N R7W NMPM 109 FEL Sec 27 T24N R7W NMPM 110 Sec 27 T24N R7W NMPM 111 SELECTION OF FEL SEC 27 T24N R7W NMPM 112 Sec 27 T24N R7W NMPM 113 Grant Sec 27 INTENTION TO: 114 FEBRUARY NO. 115 SELECTION OF INTENTION TO: 116 SEC 27 T24N R7W NMPM 117 Sec 28 T24N R7W NMPM 118 SEC 28 T24N R7W NMPM 119 Sec 29 INTENTION TO: 119 SEC 29 INTENTION TO: 110 SEC 29 INTENTION TO: 110 SEC 29 INTENTION TO: 111 SELECTION OF INTENTION TO: 112 SEC 29 INTENTION TO: 113 SEC 29 INTENTION TO: 114 SEC 29 INTENTION TO: 115 SEC 29 INTENTION TO: 116 SEC 29 INTENTION TO: 117 SEC 29 INTENTION TO: 118 SEC 29 INTENTION TO: 119 SEC 29 INTENTION TO: 119 SEC 29 INTENTION TO: 110 SEC 29 INTENTION TO: 111 SEC 29 INTENTION TO: 112 SEC 29 INTENTION TO: 113 SEC 29 INTENTION TO: 114 SEC 29 INTENTION TO: 115 SEC 29 INTENTION TO: 116 SEC 29 INTENTION TO: 117 SEC 29 INTENTION TO: 118 SEC 29 INTENTION TO: 119 SEC 29 INTENTION TO: 110 SEC 29 INTENTION TO: 111 SEC 29 INTENTION TO: 111 SEC 29 INTENTION TO: 112 SEC 29 INTENTION TO: 113 SEC 29 INTENTION TO: 114 SEC 29 INTENTION TO: 115 SEC 29 INTENTION TO: 115 SEC 29 INTENTION TO: 116 SEC 29 INTENTION TO: 117 SEC 29 INTENTION TO: 118 SEC 29 INTENTION TO: 119 SEC 29 INTENTION TO: 110 SEC 29	Budget Bureau No. 1004— Expires August 31, 1985 LEASE DESIGNATION AND SERIAL
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WORKOVER PROCEDURE

Lybrook 7-27

This procedure provides guidance for work to be completed after fish has been recovered and well cleaned out.

We will set plugs for abandonment outside of 4-1/2" casing then run 3-1/2" casing through Gallup and cement to surface. Bradenhead will be open for all operations.

Procedure

GALLUP PLUG

1. Rig up wireline unit and run cement bond log across Gallup. Perforate for abandonment as follows with 0.39" jet shots phased 120 or 180 degrees.

2996' 2 shots 2400' 2 shots 1740' 2 shots

- 2. Run in hole with packer and 25 joints (790') of tailpipe.
- 3. Spot 39 sx (46 ft^3) class "B" from 5744' to 5234'. Top of cement before pulling out tubing will be 5178' and displacement will be 20 bbl. Packer will be at 4954' while spotting.
- 4. Pull packer up to 4298' (tailpipe at 5088') and reverse 25 bbl water up tubing to make sure no cement is at end of tailpipe. Set packer at 4298' and squeeze 34.5 sx into Gallup by pumping 7.25 bbl water down tubing. This will leave cement at 5680' which is 30' above top Mayre perf. (Provided Skelly does not take much fluid.)

Note that cement is displaced past Skelly perfs. This is to maximize the amount of cement we can put in Mayre I (without spotting cement above packer) and minimize the amount of cement we must drill out. Skelly will not give us trouble with lost circulation when we cement 3-1/2" casing and we can close valve at surface when cement circulates on 3-1/2" casing to get a good squeeze on Skelly.

TEMPORARY PLUG

5. Spot 5 sx plug in casing from 3165'-3100' using Class "B" with 2% calcium chloride. Pull out of hole with packer and remove tailpipe. This will prepare us for next step while allowing time for plug to set.

MESA VERDE PLUG (2996'- 2896')

- 6. Set packer at 2592'. Establish injection via tubing into perfs at 2996' and cement Mesa Verde with 39 sx (46 ft^3) class "B" w/ 2% calcium chloride (yield 1.18 ft^3/sx). Wash pumps and lines then displace with 16 bbl water. Top of cement will be left at 2970'.
- 7. Hold squeeze for 30 minutes then release packer.

PC/FRUITLAND PLUG (2225'-1980' required, 2400'-1980' actual)

- 8. Set packer at 2213'. Establish injection into perf at 2400' and squeeze PC/Fruitland Coal with 162 sx (191 ft³) class "B" with 2% calcium chloride. Wash pumps and lines then displace cement to 2380' with 11.3 bbl water. Monitor annulus carefully for communication.
- 9. Hold pressure for 15 minutes then release packer and reverse circulate 25 bbl to insure cement did not come around 4-1/2" casing and get above packer. Reset packer and apply squeeze pressure for additional 15 minutes.

OJO ALAMO PLUG (1740'- 1460')

10. Pull packer to 663' and set. Establish injection into Ojo Alamo perfs at 1740'. Cement Ojo Alamo with 108 sx (127 ft³) class "B" with 2% calcium chloride. Displace cement to 1700' with 19.4 bbl water. Hold squeeze for 1 hour.

SURFACE PLUG (600' to surface)

- 11. Pull packer out of hole. Pump down casing and establish circulation with bradenhead through hole at 600-632'. Cement from 600' to surface with 152 sx (179 ft³) class "B" w/ 2% calcium chloride and 1/2 lb/sx flocele. Wash pumps and lines and displace with 9.75 bbl water.
- 12. Shut in well overnight.

DRILLING OUT AND RUNNING CASING

- 13. Run in hole with bit, scraper, and 7 drill collars. Drill out cement plugs to PBTD. Carefully record all cement intervals.
- 14. Lay down 2-3/8" tubing and prepare to run 3-1/2" casing.

**** to be continued ****