



[illegible]

**Remark 4.** If there are no  $\mathcal{A}$ - $\mathcal{B}$  and  $\mathcal{B}$ - $\mathcal{A}$  transitions, then the  $\mathcal{A}$ - $\mathcal{B}$  and  $\mathcal{B}$ - $\mathcal{A}$  State or Federal cases for  $\mathcal{A}$  are in  $\mathcal{A}$ - $\mathcal{B}$  and  $\mathcal{B}$ - $\mathcal{A}$  directions.

**Item 17:** Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local, Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones; to other zones with proven significant fluid content not sealed off by cement or otherwise; and method of placement of cement plugs; most other pertinent physical factors, including, but not above physical record; size, method of packing of any casings, liner or tubing pulled in; the depth to top of the hole; method of closing top of well; and safe well site conditions for final inspection leading to removal of the abandonment.

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627-279

4-1-71 Drilled cement from 2729-2830. Pulled out of hole. Ran bond log. No bond. Perf 2 squeeze holes @ 2760'. Ran RTTS packer & set @ 2567'. Cemented w/150 sxs Class C, 3% CaCl<sub>2</sub>. Squeezed off w/2000". Tagged cement at 2605'. Drilled cement at 2665'.

4-2-71 Drilled cement from 2605-2700. Clean out to top of retainer. Pulled out of hole, set whipstock @ 4729'. Cut window from 4729-4739. Blowing down. Blowing at 1500'

4-3-71 Drilled from 4729.5225. Dev. 6-1/2 degrees @ 5000'.

4-4-71 Laid down drill pipe & collars. Ran 160 joints 4-1/2" 10.50# casing total 5228', shoe set @ 5219', float collar set at 5187'. Cemented w/300 sxs Halliburton Light, 100 sxs Class C. Plugged down @ 1:45 AM.

4-5-71 Rigged up Western, pressure tested casing to 2500'. HcId ok. Ram bond log. No cement above 4800'.

4-6-71 Perf. 5168-76, 5110-28, 5080-99, 5042-62, 5026-32, 28PF. 13ac w/50,820 Gulf's Netwr, 2.5# 114 per 1000 gal,

30,000# 20/40 Sand & 20,000% 10/20 Sand, Avg Pressure 3100#, Max Pressure 2600#, No Peak down, Avg Time

Pressure 49.4 mmHg, In 5 minutes equal 0. Dropped 50 balls in 3 stages - Good Action.

Total fluid used 59,220 gals, horse power 3148; Blowing down, Gauge 5# on 2" line, = 1600 NCP. Making 1-1/

stream water.

duller

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| Parameter                     | Control | 10000 RPM | 20000 RPM | 30000 RPM | 40000 RPM | 50000 RPM | 60000 RPM | 70000 RPM | 80000 RPM | 90000 RPM | 100000 RPM |
|-------------------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| Pressure (psi)                | 20      | 20        | 20        | 20        | 20        | 20        | 20        | 20        | 20        | 20        | 20         |
| Flow Rate (L/min)             | 1.0     | 1.0       | 1.0       | 1.0       | 1.0       | 1.0       | 1.0       | 1.0       | 1.0       | 1.0       | 1.0        |
| Temperature (°C)              | 25      | 25        | 25        | 25        | 25        | 25        | 25        | 25        | 25        | 25        | 25         |
| Time (min)                    | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Concentration (mg/L)          | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| pH                            | 7.0     | 7.0       | 7.0       | 7.0       | 7.0       | 7.0       | 7.0       | 7.0       | 7.0       | 7.0       | 7.0        |
| DO (%)                        | 100     | 100       | 100       | 100       | 100       | 100       | 100       | 100       | 100       | 100       | 100        |
| UV-254                        | 0.1     | 0.1       | 0.1       | 0.1       | 0.1       | 0.1       | 0.1       | 0.1       | 0.1       | 0.1       | 0.1        |
| TOC (mg/L)                    | 1.0     | 1.0       | 1.0       | 1.0       | 1.0       | 1.0       | 1.0       | 1.0       | 1.0       | 1.0       | 1.0        |
| TP (mg/L)                     | 0.1     | 0.1       | 0.1       | 0.1       | 0.1       | 0.1       | 0.1       | 0.1       | 0.1       | 0.1       | 0.1        |
| Ammonia (mg/L)                | 0.1     | 0.1       | 0.1       | 0.1       | 0.1       | 0.1       | 0.1       | 0.1       | 0.1       | 0.1       | 0.1        |
| Chlorophyll a (µg/L)          | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Chlorophyll b (µg/L)          | 5       | 5         | 5         | 5         | 5         | 5         | 5         | 5         | 5         | 5         | 5          |
| Carotenoids (µg/L)            | 2       | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2          |
| Protein (mg/L)                | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| DNA (mg/L)                    | 1       | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1          |
| RNA (mg/L)                    | 0.5     | 0.5       | 0.5       | 0.5       | 0.5       | 0.5       | 0.5       | 0.5       | 0.5       | 0.5       | 0.5        |
| ATP (µg/L)                    | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Glucose (mg/L)                | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Fructose (mg/L)               | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Sucrose (mg/L)                | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Starch (mg/L)                 | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Cellulose (mg/L)              | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Lignin (mg/L)                 | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Chitin (mg/L)                 | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Chitosan (mg/L)               | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Alginate (mg/L)               | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Agarose (mg/L)                | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Pectin (mg/L)                 | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Xanthan (mg/L)                | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Gellan (mg/L)                 | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Curdlan (mg/L)                | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Hydroxyethylcellulose (mg/L)  | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Carboxymethylcellulose (mg/L) | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Guar gum (mg/L)               | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Locust bean gum (mg/L)        | 10      | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Tragacanth gum (mg/L)         | 10      | 10        | 10        | 10        | 10        |           |           |           |           |           |            |

|              |            |
|--------------|------------|
| Avg net wt   | 600 g      |
| Shed wt      | 600 g      |
| in 5 min     | 1.00%      |
| max pressure | 3000 mm Hg |
| Avg pressure | 2800 mm Hg |
| Pressure     | 2800 mm Hg |
| dropped      | 20 balls   |
| H.H.P., used | 281.7      |

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4-10-Z1  
Drilled out bridge plug at 4499'. Cleared out to 4040-5188'. Blowed to clean. Laid down 2-3/8" tubing.  
Drilled out bridge plug at 4790'. Cleared out to 4040-5188'. Blowed to clean. Laid down 2-3/8" tubing.

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Unable to spare our professor, we had to make do to make use of his pulpit one of his sons, Zeng Zhi, and his son-in-law, Zeng Zhi.

packed at 5007', Ran steel unit 1 X 4 - 1-1/2 RAD; sub, Model 194 nipple, 1 joint 1-1/2" tubing, sliding

sleeve, 68 joints 1-1/2" PM tubing, 1 X 8' - 1 X 10 Blast joints, 84 joints 1-1/2" PM tubing, 1 X 8'

1 joint 1-1/2" tubing landed with 800'. Rigged up well head. Pumped out plug.

4-12-71 Roger, de a. Looking to clean.

4-13-71 Brought to Clin.

4-14-ZJ  
Bleeding to clean.

to show for test.