

CASING AND CEMENTING

Field WC Well Isleta #1
 Job: 7" " O.D. Casing/Liner. Ran to 14,104 feet (KB) on 3/5, 1975.

Jts.	Wt.	Grade	Thread	New	Feet	From	To
						<u>8.86 KB 0</u>	<u>CHF 23.60</u>
<u>19</u>	<u>26</u>	<u>N-80</u>	<u>8rd</u>	<u>New</u>	<u>813.33</u>	<u>OKR</u>	<u>836.93</u>
<u>6</u>	<u>29</u>	<u>N-80</u>	<u>8rd</u>	<u>New</u>	<u>252.31</u>		<u>1,089.24</u>
<u>3</u>	<u>26</u>	<u>N-80</u>	<u>8rd</u>	<u>New</u>	<u>131.67</u>		<u>1,220.91</u>
<u>130</u>	<u>26</u>	<u>K-55</u>	<u>8rd</u>	<u>New</u>	<u>5,472.92</u>		<u>6,693.83</u>
<u>79</u>	<u>26</u>	<u>N-80</u>	<u>8rd</u>	<u>New</u>	<u>3,479.24</u>		<u>10,173.07</u>
<u>96</u>	<u>26</u>	<u>Soo-95</u>	<u>8rd</u>	<u>New</u>	<u>3,806.80</u>		<u>13,979.87</u>
Howco Differential Float Collar					<u>1.62</u>		<u>13,981.49</u>
<u>3</u>	<u>26</u>	<u>Soo-95</u>	<u>8rd</u>	<u>New</u>	<u>120.09</u>		<u>14,101.58</u>
Casing Hardware: Howco Differential Float Shoe					<u>2.42</u>		<u>14,104.00</u>

Float shoe and collar type Shoe 847.2006 Float Collar 824.5292

Centralizer type and product number S-3 807.712

Centralizers installed on the following joints 10' above shoe #2, #4, #7, #10, #13, #16

Other equipment (liner hanger, D.V. collar, etc.)

Cement Volume:

Caliper type BHC Sonic w/Ca Caliper volume 1577.508 ft³ + excess over caliper
401.042 ft³ + float collar to shoe volume 26.66 ft³ + liner lap
 + cement above liner ft³ = 2005.21 ft³ (Total Volume).

Cement:

Preflush—Water KCL bbls, other Volume bbls
 First stage, type and additives 616 sx Hal. Lite, 1% CFR-2, .003% HR-7
 ft³/sk, volume 1090.32 sx. Pumpability 4:45 hours at 300 °F.
 Second stage, type and additives Class "H", 1½% CFR-2, 30% Silica Flour, 4% Gel, .003% HR-7
 ft³/sk, volume 914.49 sx. Pumpability 4:29 hours at 300 °F.

Cementing Procedure:

Rotate/reciprocate
 Displacement rate 6.2 bbls
 Percent returns during job @ 8 bbls 75%, @ 5 bbls 100%
 Bumped plug at 2:35 pm 3/5/75 AM/PM with 1700 psi. Bled back 3 bbls. Hung csg
 with 300,000 lbs on slips.

Remarks:

Drilling Foreman J. B. Smith
 Date 3/11/75