

NEW MEXICO OIL CONSERVATION COMMISSION
DRAWER DD
ARTESIA, NEW MEXICO

FIELD REPORT FOR CEMENTING OF WELLS

Operator <i>Shell Oil Co.</i>		Lease <i>Canner</i>		Well # <i>7</i>	
Location of Well	Unit <i>13153-26352</i>	Section <i>27</i>	Township <i>10</i>	Range <i>25</i>	County <i>Chaves</i>
Drilling Contractor			Type of Equipment <i>Rotary</i>		
APPROVED CASING PROGRAM <i>1015 SA.</i>					
Size of Hole	Size of Casing	Weight Per Foot	New or Used	Depth	Sacks Cement
<i>12 1/4</i>	<i>10 3/4</i>	<i>32.75</i>	<i>New</i>	<i>30</i>	<i>60</i>
<i>9 7/8</i>	<i>7</i>	<i>23</i>	<i>"</i>	<i>720</i>	<i>300</i>
<i>6 1/4</i>	<i>4 1/2</i>	<i>9.5 + 11.6</i>	<i>"</i>	<i>860</i>	<i>100</i>
Casing Data:					
Surface _____ joints of _____ inch _____ # Grade _____ (Approved) (Rejected)					
Inspected by _____ date _____					
Cementing Program					
Size of hole _____ Size of Casing _____ Sacks cement required _____					
Type of Shoe used _____ Float collar used _____ Btm 3 jts welded _____					
TD of hole _____ Set _____ Feet of _____ Inch _____ # Grade _____					
New-used csg. @ _____ with _____ sacks neat cement around shoe + _____ sack _____ additives _____					
Plug down @ _____ (AM) (PM) Date _____					
Cement circulated _____ No. of Sacks _____					
Cemented by _____ Witnessed by _____					
Temp. Survey ran @ _____ (AM) (PM) Date _____ top cement @ _____					
Casing test @ _____ (AM) (PM) Date _____					
Method Used _____ Witnessed by _____					
Checked for shut off @ _____ (AM) (PM) Date _____					
Method used _____ Witnessed by _____					
Remarks: _____					

*Temp survey complete at 2:15 PM
Cement test failed at top 275; cement 1.4 cu ft. fill up from
575 to 275. From 11:30 to 2:15 PM cement 1.4 cu ft. fill up from
575 to 275. T 113.0, no 50% more cement - 3:40 PM cement
top tagged at 225', spotted 100 sacks cement - 6:30 PM
cement top tagged 200-225', spotted 50000 incov 6% CaCl at
200 feet. - 8:15 PM cement top tagged at 175 feet, At this
point Mose came and I went to Artesia. He witnessed the
running of cement additional 100 sacks which filled hole
at 175 feet.*

1. The first part of the paper is devoted to a general
discussion of the problem. It is shown that the
problem is of great importance in the theory of
differential equations. The second part is devoted
to the study of the properties of the solutions of
the problem. It is shown that the solutions are
unique and that they depend continuously on the
initial conditions. The third part is devoted to the
study of the stability of the solutions. It is shown
that the solutions are stable under small
perturbations of the initial conditions.