

Operator <u>Arco Oil & Gas Co.</u>		Lease <u>State "2"</u>			Well # <u>#4</u>
Location of Well	Unit <u>L</u>	Section <u>2</u>	Township <u>19</u>	Range <u>30</u>	County <u>Eddy</u>
Drilling Contractor			Type of Equipment		

APPROVED CASING PROGRAM

Size of Hole	Size of Casing	Weight Per Foot	New or Used	Depth	Sacks Cement
<u>17 1/2"</u>	<u>13 3/8"</u>	<u>48</u>		<u>700'</u>	<u>600 circ</u>
<u>12 1/4"</u>	<u>* 8 5/8"</u>	<u>24</u>		<u>2000'</u>	<u>700 circ</u>
<u>7 7/8"</u>	<u>5 1/2"</u>	<u>15.5</u>		<u>3300'</u>	<u>350</u>

Casing Data:
 Surface 49 joints of 8 5/8 inch 24 # Grade K55
 (Approved) (Rejected)

Inspected by Johnny Robinson date 5-16-90

Cementing Program
 Size of hole 12 1/4 Size of Casing 8 5/8 Sacks cement required 930
 Type of Shoe used guide Float collar used yes Btm 3 jts welded yes
 TD of hole 2025 Set 2030 Feet of 8 5/8 inch 24 # Grade K55

New-used csg. @ 2030 with 200 sacks neat cement around shoe
 + 730 sax Haliburton lite additives 13 lb. salt
 Plug down @ 1:50 (AM) (PM) Date 5-16-90

Cement circulated yes No. of Sacks 170 SXS.
 Cemented by Haliburton Witnessed by Johnny Robinson

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: _____

