

FIELD REPORT FOR CEMENTING OF WELLS

OIL CONSERVATION DIVISION

Operator <u>Yates Petroleum Corp.</u>		Lease <u>Voight "AJD" Com</u>		Well # <u>1</u>	
Location of Well	Unit <u>D</u>	Section <u>29</u>	Township <u>19</u>	Range <u>25</u>	County <u>Eddy</u>
Drilling Contractor	<u>NA</u>		Type of Equipment <u>Rotary</u>		

* WITNESS APPROVED CASING PROGRAM

Size of Hole	Size of Casing	Weight Per Foot	New or Used	Depth	Sacks Cement
<u>14 3/4</u>	* <u>9 5/8</u>	<u>36# J-55</u>		<u>1100</u>	<u>1100 Circ</u>
<u>8 3/4</u>	<u>7</u>	<u>23-26#</u>		<u>TD</u>	<u>As Warranted</u>
		<u>J-55 + N-80</u>			

Casing Data:

Surface _____ joints of _____ inch _____ # Grade _____
 (Approved) (Rejected) _____

Inspected by _____ date _____

Cementing Program

Size of hole 14 3/4" Size of Casing 9 5/8" Sacks cement required _____

Type of Shoe used guide Float collar used insert Btm 3 jts welded yes

TD of hole 1089' Set 1089' Feet of 9 5/8" Inch 36 # Grade J-55

New-used csg. @ 1089' with 150 27cc sacks neat cement around shoe

+ 700 sax Hall. Lite additives 10# gilsonite, 1/4# floreal, 37cc

Plug down @ 8:15 AM (PM) Date 1-27-92

Cement circulated yes No. of Sacks 25 sx

Cemented by Halliburton Witnessed by Mike Stubblefield

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: _____

2 cement baskets 218'-350'

3 centralizers - 1049' - 969' lost circ @ 150' & regained.

14 3/4" rotary hours 39 Last drlg break @ 976'

$\frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = \frac{1}{2} m \frac{d}{dt} (v^2) = \frac{1}{2} m \frac{d}{dt} (v_x^2 + v_y^2 + v_z^2)$
 $= \frac{1}{2} m \left(2 v_x \frac{d v_x}{dt} + 2 v_y \frac{d v_y}{dt} + 2 v_z \frac{d v_z}{dt} \right) = m \left(v_x \frac{d v_x}{dt} + v_y \frac{d v_y}{dt} + v_z \frac{d v_z}{dt} \right)$
 $= m \left(v_x \frac{d}{dt} \left(\frac{1}{m} \frac{d p_x}{dt} \right) + v_y \frac{d}{dt} \left(\frac{1}{m} \frac{d p_y}{dt} \right) + v_z \frac{d}{dt} \left(\frac{1}{m} \frac{d p_z}{dt} \right) \right)$
 $= \frac{1}{m} \left(v_x \frac{d p_x}{dt} + v_y \frac{d p_y}{dt} + v_z \frac{d p_z}{dt} \right)$
 $= \frac{1}{m} \left(v_x \frac{d}{dt} (m v_x) + v_y \frac{d}{dt} (m v_y) + v_z \frac{d}{dt} (m v_z) \right)$
 $= \frac{1}{m} \left(m v_x \frac{d v_x}{dt} + m v_y \frac{d v_y}{dt} + m v_z \frac{d v_z}{dt} \right) = \frac{1}{m} \left(m v_x \frac{d v_x}{dt} + m v_y \frac{d v_y}{dt} + m v_z \frac{d v_z}{dt} \right)$
 $= v_x \frac{d v_x}{dt} + v_y \frac{d v_y}{dt} + v_z \frac{d v_z}{dt} = \frac{d}{dt} \left(\frac{1}{2} v_x^2 + \frac{1}{2} v_y^2 + \frac{1}{2} v_z^2 \right) = \frac{d}{dt} \left(\frac{1}{2} v^2 \right)$

[illegible][illegible]