

Operator <u>Gates Petr. Corp.</u>		Lease <u>Lost Jamb "AIS" St</u>		Well # <u>4</u>	
Location of Well	Unit <u>K</u>	Section <u>36</u>	Township <u>21</u>	Range <u>31</u>	County <u>Eddy</u>
Drilling Contractor	<u>Undesig.</u>		Type of Equipment <u>Rotary</u>		

APPROVED CASING PROGRAM

* Witness

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>54.5 #</u>		<u>850</u>	<u>850 Circ</u>
<u>12 1/4</u>	* <u>8 5/8</u>	<u>32.0 #</u>		<u>4500</u>	<u>2500 Circ</u>
<u>7 7/8</u>	<u>5 1/2</u>	<u>17 + 20 #</u>		<u>TD</u>	<u>As Warranted</u>

Casing Data:

Surface joints of 8 5/8" inch 32 # Grade H-80 J-55

(Approved) (Rejected)

Inspected by M.S. date

Cementing Program

Size of hole 11" Size of Casing 8 5/8" Sacks cement required

Type of Shoe used float Float collar used yes Btm 3 jts welded yes

TD of hole 4125' Set 4125' Feet of 8 5/8" Inch 32 # Grade J-55 H-80

New used csg. @ 4125' with 200 2700 sacks neat cement around shoe 10 # salt, 10 # gil.

+ 450 sax CI C. additives 10 # salt, 10 # gilsonite

Plug down @ 5:30 (AM) (PM) Date 11-21-91

Cement circulated yes No. of Sacks 1700 sx above D.V. Tool 1st stage

Cemented by Western Company 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: D.V. tool @ 2850'

2nd stage + 1500 sx pacesetter lite (10 # salt, 10 # gilsonite)

+ 100 sx CI C

Plug down @ 11:15 AM Circulated 350 sx cement.

Water flow @ 3280'
60 gal. / min. ST PSI 475 #