

WELL NAME AND NUMBER: Well A #5
 LOCATION: 21-19s-21w
 COUNTY: NESS STATE: KANSAS
 TYPE JOB: PRODUCTION CASING DOWELL ENGINEER: DAN O'BRIEN
 NAME: CITIES SERVICE Oil Company
 ADDRESS: OIL PRODUCTION DIVISION
Box 308 GREAT BEND, KAN.
 CITY & STATE: GREAT BEND, KANSAS 67530

WELL DATA			
HOLE AND MUD	CASING		
	A	B	
HOLE SIZE <u>7 7/8</u>	SIZE <u>4 1/2</u>		STAGE TOOL
DEPTH <u>4459</u>	WEIGHT <u>9.5</u>		TYPE
ROT. <u>Left</u>	GRADE <u>T.55</u>		DEPTH
CABLE	THREAD <u>RR</u>		TYPE
BHT	FLOAT TYPE <u>INSERT</u>		DEPTH
MUD TYPE <u>SALT GEL</u>	FLOAT DEPTH <u>4431</u>		ROT.
MUD WT.	SHOE TYPE <u>GUIDE</u>		RECIP.
MUD VISC.	SHOE DEPTH <u>7158</u>		CENTRALIZER
	CAPACITY <u>72.1</u>		
TUBING-D. P.	HEADS & PLUGS	SQUEEZE	
SIZE	DOUBLE	PERFORATION	TYPE PACKER
WEIGHT	SINGLE <u>X</u>	TO	
GRADE	SWEDGE	TO	DEPTH
THREAD	KNOCKOFF <u>X</u>	TO	
NEW USED	TOP <u>R</u>	TO	TAIL PIPE
DEPTH	BOTTOM	TO	SIZE
	OTHER		LENGTH

JOB INSTRUCTIONS:
 JOB SCHEDULED FOR: _____ ARRIVED LOCATION 6:00 AM

TIME	PRESSURE		BARRELS PUMPED	DETAIL
	TBG. OR D.P.	CASING		
<u>9:50 AM</u>	<u>200</u>			<u>CASING RUN - CONDITION HOLE</u>
<u>10:25</u>	<u>"</u>	<u>#9</u>		<u>PUMP WATER AHEAD</u>
<u>30</u>	<u>"</u>	<u>10</u>		<u>WATER IN</u>
<u>30</u>	<u>"</u>	<u>03</u>		<u>MIX CEMENT</u>
<u>37</u>	<u>"</u>	<u>33</u>		<u>FINISH MIXING</u>
<u>38</u>	<u>-</u>	<u>-</u>		<u>WASH PUMP & LINES</u>
<u>40</u>	<u>200</u>	<u>0</u>		<u>RELEASE PLUG & DISPLACE</u>
<u>55</u>	<u>800-1100</u>	<u>72</u>		<u>PLUG DOWN</u>
				<u>RELEASE - O.K.</u>
<u>11:00</u>	<u>300</u>			<u>PRESSURE UP - SHUT IN</u>

REMARKS:

CEMENT DATA						
CUBIC FEET	BRAND	TYPE	% GEL.	OTHER ADMIXES	%	SLURRY WT.
<u>150</u>	<u>ATLANTIC PORTLAND</u>	<u>A</u>	<u>-</u>	<u>SALT SATURATED</u>		<u>16.0</u>

CUBIC FEET: MIXED _____ DISPLACED _____
 PRESSURE: BREAKDOWN _____
 AVERAGE _____
 FINAL _____
 WASHED THRU: YES NO TO _____

PUMPED BY: DOWELL RIG
 MEASURED BY: DISPLACEMENT WIRE LINE
 PRESSURE: MAXIMUM 1100 MINIMUM 0-200
 WAS CIRCULATION LOST: YES NO
 WAS CEMENT CIRCULATED TO SURFACE: YES NO
 CEMENT LEFT IN PIPE 27.58 FT. NECESSITY REQ'D

MODIFIED CEMENT LICENSE APPLIED ON _____ SACKS GULF HIGH GEL LICENSE APPLIES ON _____ SACKS
 MATERIAL FURNISHED BY CUSTOMER _____ TYPE OF WELL
 OIL OR GAS PROD. STORAGE BRINE INJECTION
 A B C D

CALL BACK _____ DATE _____ CUSTOMER REPR. CONTRACTED Mr. McCallum CUSTOMER CONSIDERED SERVICE:
 SATISFACTORY UNSATISFACTORY UNKNOWN