

Operator Name National Cooperative Refinery Association Lease Name Chloride Recovery Well # 1
 Sec 4 Twp 20 S. R. 3 East West County McPherson

INSTRUCTIONS. Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List Ali E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td><u>Arbuckle</u></td> <td><u>3809</u></td> <td><u>-2309</u></td> </tr> <tr> <td><u>Reagan Sand</u></td> <td><u>4302</u></td> <td><u>-2802</u></td> </tr> <tr> <td><u>Granite Wash</u></td> <td><u>4340</u></td> <td><u>-2840</u></td> </tr> </table>	Name	Top	Datum	<u>Arbuckle</u>	<u>3809</u>	<u>-2309</u>	<u>Reagan Sand</u>	<u>4302</u>	<u>-2802</u>	<u>Granite Wash</u>	<u>4340</u>	<u>-2840</u>
Name	Top	Datum											
<u>Arbuckle</u>	<u>3809</u>	<u>-2309</u>											
<u>Reagan Sand</u>	<u>4302</u>	<u>-2802</u>											
<u>Granite Wash</u>	<u>4340</u>	<u>-2840</u>											

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			See Attached				

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose: <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
RECEIVED KANSAS CORPORATION COMMISSION FEB 24 2004 CONSERVATION DIVISION WICHITA, KS				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
None	Completed open hole 3868'-4391'	Acidized with 14,000 gallons of 20% FE Acid	3868
			}
			4391

TUBING RECORD		Size <u>7"</u>	Set At <u>3944.58</u>	Packer At <u>3850.32</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. System not completed-will be online later this year			Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas **METHOD OF COMPLETION** Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 3868'-4391'
(if vented, Submit AGO-18.) Other (Specify) _____

**Attachment to ACO-1 Form
Casing Record**

Purpose of String:	Size Hole Drilled	Size Casing Set (in OD)	Weight in lbs / ft	Setting Depth	Type of Cement	Number Sacks used	Type & Percent Additives
Conductor Casing	26 inch	20 inch	94 #/ft	230.4 ft	60/40 pozmix	420 sks	3 % CaCL & 2 % gel
Surface Casing	17 1/2 inch	13 3/8 inch	48 #/ft	867 ft	lead slurry - 60/40 pozmix Tail slurry - 70/30 pozmix	600 sks 200 sks	3 % CaCl & 4 % gel 3 % CaCL & 2 % gel
Production Casing	12 1/4 inch	9 5/8 inch	43.5 #/ft	3868 ft	Bottom Stage 60/40 pozmix - - 60/40 pozmix - ASC Top stage thru D.V. Tool 65/45 pozmix 60/40 pozmix	250 sks 500 sks 150 sks 475 sks 100 sks	6 % gel, 1/2 of 1 % CD-31 & 1/4 lb flo-seal/ sack 6 % gel & 1/4 lb flo-seal/ sack 10 % salt, 1/4 lb flo-seal/ sack 6 % gel, 1/4 lb flo-seal/ sack 2 % gel, 10 % salt, 1/4 lb flo-seal/ sack
Disposal Tubing	7 inch		23 #/ft	3944.58 ft bottom of tbg	Brown Liner Hanger Packer Set at 3850.32 feet		
Remarks: Cement was circulated to surface on the 20 inch conductor casing, 13 3/8 inch surface casing, and the 9 5/8 inch production casing.							

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 CONSERVATION DIVISION
 WICHITA, KS

ALLIED CEMENTING CO., INC. 12823

KANSAS CORPORATION COMMISSION
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ATTN TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: GREAT POND

DATE <u>11/24</u>		SEC <u>4</u>		TWP <u>20S</u>	RANGE <u>3W</u>	CALLER OUT <u>5:30 AM</u>	ON LOCATION <u>8:00 AM</u>	JOB START <u>8:15 AM</u>	JOB FINISH <u>3:30 PM</u>
LEASE <u>CHLORIDE RECOVERY DISPOSAL</u>		WELL # <u>1</u>		LOCATION <u>MCPHEARSON NCRA Recovery</u>		COUNTY <u>MCPHEARSON</u>		STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		LOCATION <u>1/2 E 1/2 S</u>							

CONTRACTOR <u>STEARLING LOG #1</u>	OWNER <u>NCRA</u>
TYPE OF JOB <u>20" CONDUCTOR</u>	CEMENT
HOLE SIZE <u>26"</u> T.D. <u>---</u>	AMOUNT ORDERED <u>475 ML 6040 LBS 3% GEL</u>
CASING SIZE <u>20"</u> DEPTH <u>230'</u>	<u>USED 420 ML</u>
TUBING SIZE <u>2 7/8"</u> DEPTH <u>230'</u>	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX <u>300</u> MINIMUM <u>200</u>	COMMON <u>252 ML @</u>
MEAS. LINE SHOE JOINT	POZMIX <u>168 ML @</u>
CEMENT LEFT IN CSG. <u>- 1 BL</u>	GEL <u>7 ML @</u>
PERFS.	CHLORIDE <u>13 ML @</u>
DISPLACEMENT <u>1B</u>	
EQUIPMENT	
PUMP TRUCK CEMENTER <u>BUD</u>	
# <u>181</u> HELPER <u>BURR</u>	
BULK TRUCK	HANDLING <u>497 ML @</u>
# <u>259</u> DRIVER <u>STEVE</u>	MILEAGE <u>497 ML OS</u>
BULK TRUCK	
# DRIVER	TOTAL

REMARKS:	SERVICE
<u>RAN 230 FT. 20" CSG. RAN 2 7/8"</u>	DEPTH OF JOB <u>230'</u>
<u>TO 230 FT. STAB IN B. SIDE - BROKE</u>	PUMP TRUCK CHARGE
<u>CIRCULATION W 4 BLS TRESH H2O</u>	EXTRA FOOTAGE
<u>MIXED 420 ML 6040 LBS 3% GEL</u>	MILEAGE <u>64</u>
<u>2% GEL. DUMPAGED W-1 BLS</u>	PLUG
<u>RELEASED WELD - CEMENT CIRCULATED</u>	
<u>PULL TUBING OUT OF HOLE</u>	
	TOTAL

CHARGE TO: T+C MFG. + OPER / NCRA

STREET _____

CITY GREAT POND STATE KS ZIP 67530

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE [Signature]

FLOAT EQUIPMENT

<u>1-20" SLIPWELD</u>	@
<u>STAB-IN BORE SIDE</u>	@
_____	@
_____	@

TOTAL

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Dan Murta

ALLIED CEMENTING CO., INC. 12824

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: GREAT BEND

DATE <u>10-30-03</u>	SEC. <u>4</u>	TWP. <u>20S</u>	RANGE <u>3W</u>	CALLED OUT <u>8:15 P</u>	ON LOCATION <u>11:45 A</u>	JOB START <u>7:30 AM</u>	JOB FINISH <u>9:00 PM</u>
(Hole Recovery Disposal) LEASE WELL# <u>I</u>				LOCATION <u>NCRA RECOVERY 1/2 E 1/2 S</u>		COUNTY <u>McPherson</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)							

KANSAS CORPORATION COMMISSION
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CONTRACTOR <u>STERLING DRIG #1</u> TYPE OF JOB <u>SURFACE CEMENT</u> HOLE SIZE <u>17 1/2"</u> T.D. <u>930'</u> CASING SIZE <u>13 3/8"</u> DEPTH DRILLING SIZE <u>20"</u> DEPTH <u>230'</u> DRILL PIPE DEPTH <u>911'</u> TOOL DEPTH PRES. MAX <u>750#</u> MINIMUM <u>450</u> MEAS. LINE SHOE JOINT CEMENT LEFT IN CSG. <u>43'</u> PERFS. DISPLACEMENT <u>141 BLS</u> EQUIPMENT PUMP TRUCK CEMENTER <u>BUD TIM</u> # <u>181</u> HELPER <u>BILL</u> BULK TRUCK # <u>259</u> DRIVER <u>TIM</u> BULK TRUCK # <u>342</u> DRIVER <u>DON</u>	OWNER <u>NCRA</u> CEMENT AMOUNT ORDERED <u>600 GAL 60/40 AC 4" GAL 36cc</u> <u>1/4" TO SEAL SK 200 W/ 201/30 PZ 36cc</u> <u>2% GEL 1000 GAL AS FLUSH</u> COMMON <u>500 GAL</u> @ POZMIX <u>300 GAL</u> @ GEL <u>24 GAL</u> @ CHLORIDE <u>24 GAL</u> @ FEO-SEAL <u>150 #</u> @ AS-FLUSH <u>1000 GAL</u> @ @ @ @ HANDLING <u>85 GAL</u> @ MILEAGE <u>85 GAL DS</u>
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REMARKS: <u>RAD 13 3/8" CSG TO 911' - PROVE</u> <u>Circulation with big circulated</u> <u>30 mins. PUMP 1000 GAL AS FLUSH</u> <u>Mixed 600 GAL 60/40 AC 4" GAL 36cc</u> <u>1/4" TO SEAL SK FOLLOWED BY 200 GAL</u> <u>10/30/02 3% GEL 2% GEL RELEASE</u> <u>PLUG DISPLACEMENT TO INSERT W/ 141 BLS</u> <u>FRESH #20</u> CEMENT DID CIRCULATE	SERVICE DEPTH OF JOB <u>911'</u> PUMP TRUCK CHARGE EXTRA FOOTAGE <u>611'</u> @ MILEAGE <u>64</u> @ PLUG 1-Top 13 3/8" PBR @ @ @ TOTAL
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CHARGE TO: T+C MFG. + OPER G / NCRA
 STREET _____
 CITY GREAT BEND STATE KS ZIP 67520

FLOAT EQUIPMENT

<u>1-13 3/8" SUMP W/ 20 SUMP</u>	@
<u>1-13 3/8" Auto FILL W/ SEAL</u>	@
<u>8-13 3/8" CEMENTIZERS</u>	@
<u>1-13 3/8" STOP BUNK</u>	@

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Dan Murta

TOTAL _____

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME DAN MURTA

ALLIED CEMENTING CO., INC. 14497

P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Great Bend Medicine Lodge

DATE <u>11-25-03</u>	SEC. <u>4</u>	TWP. <u>20s</u>	RANGE <u>3W</u>	APRIDE B/L LOC <u>11-24-03</u>	CALLED OUT <u>1:00 PM</u>	ON LOCATION <u>8:00 AM</u>	JOB START <u>1:00 PM</u>	JOB FINISH <u>5:30 AM</u>
LEASE <u>CHLORIDE Recovery</u>				WELL # <u>1</u>	LOCATION <u>NCRA REFINERY</u>		COUNTY <u>McPherson</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)								

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CONTRACTOR <u>STERLING DRUG. RG #1</u>	OWNER <u>NCRA</u>
TYPE OF JOB <u>Bottom Stage</u>	
HOLE SIZE _____ T.D. <u>3880.80</u>	CEMENT AMOUNT ORDERED <u>1000 GAL ASTUSH 250ml</u>
CASING SIZE <u>9 5/8"</u> DEPTH <u>3870.28</u>	<u>640 lb 6% GEL 0050 C.D-31 1/4" FS 500ml 640</u>
TUBING SIZE _____ DEPTH _____	<u>132.6 lb 6% 1/4" FS AND 150ml ASC 10% Sact</u>
DRILL PIPE _____ DEPTH _____	<u>0050 FT 160</u>
TOOL <u>Stage Collar</u> DEPTH <u>1847'</u>	COMMON <u>450ml</u> @
PRES. MAX <u>2000*</u> MINIMUM <u>1400</u>	POZMIX <u>300ml</u> @
MEAS. LINE _____ SHOE JOINT _____	GEL <u>40 ml</u> @
CEMENT LEFT IN CSG. <u>40'</u>	CHLORIDED <u>10ml 3S#</u> @
PERFS. _____	ASC <u>150ml</u> @
DISPLACEMENT <u>147 B₂ H₂O 140 TB MWD</u>	FL 160 <u>71#</u> @

EQUIPMENT

PUMP TRUCK CEMENTER <u>BUD + TIM</u>
<u>352/191</u> HELPER <u>BURR + DAVID F</u>
BULK TRUCK
<u>363/251</u> DRIVER <u>TAMBER FOX</u>
BULK TRUCK
<u>353/314</u> DRIVER <u>TRADY CUSHBERY</u>

FL 160 <u>71#</u> @	
C.D-31 <u>108#</u> @	
FG-SEAL <u>189#</u> @	
ASTUSH <u>1000 GAL</u> @	
HANDLING <u>982 ml</u> @	
MILEAGE <u>982 ml OS</u>	
TOTAL	

REMARKS: S: 45 / AM
Run 9 5/8" Csg to 3870. Hook up Rig
Circulate the Mix Lead: 250ml 640
FG 132.6 lb 6% C.D-31 w D-Tek 500ml
640 lb 6% 6% 1/4" FS Follow w 150ml
ASC 10% Sact Displace Plug to Front
Collar 147 B₂ H₂O 140 TB MWD - pump
At 1400' Pump Plug 2000'
Release Press Fronts Held

SERVICE

DEPTH OF JOB <u>3870'</u>
PUMP TRUCK CHARGE _____
EXTRA FOOTAGE _____ @
MILEAGE <u>64x 2 trucks</u> @
PLUG _____ @
<u>Stair by pump</u> @
TOTAL

CHARGE TO: T+C MFG + Oper. Co
 STREET P.O. Box 225
 CITY GREAT BEND STATE KS ZIP 67530

FLOAT EQUIPMENT

<u>1-9 5/8" Slip Wed</u> @
<u>1-9 5/8" Float Shoe</u> @
<u>1-9 5/8" Float Collar</u> @
<u>31-9 5/8" Turbo Centre</u> @
<u>4-9 5/8" Cement Benders</u> @
<u>1-9 5/8" Stage Collar</u> @
<u>1-9 5/8" Slip Ring</u> @
TOTAL

THANKS / ALLIED CREW

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE [Signature]

PRINTED NAME _____

ALLIED CEMENTING CO., INC. 14498

P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Great Bend
Medicine Lodge

DATE <u>11-23-03</u>	SEC. <u>4</u>	TWP. <u>20s</u>	RANGE <u>3W</u>	CALLER OUT <u>11-24-03</u>	ON LOCATION <u>POP 8:30 AM</u>	JOB START <u>1:10 PM</u>	JOB FINISH <u>2:00 PM</u>
LEASE # <u>RECORDER</u>	WELL # <u>1</u>	LOCATION <u>NCRA REFINERY</u>	<u>McHERSON</u>	COUNTY <u>McHERSON</u>	STATE <u>Ks</u>		
OLD OR NEW (Circle one) <u>1/2 E</u>							

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CONTRACTOR <u>STERLING DRIG #1</u>	OWNER <u>NCRA</u>
TYPE OF JOB <u>TOP STAGE</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>3880'</u>
CASING SIZE <u>9 5/8"</u>	DEPTH <u>3870'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL <u>STAGE COLLAR</u>	DEPTH <u>1847</u>
PRES. MAX <u>2500#</u>	MINIMUM <u>850"</u>
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>133.55</u>	

EQUIPMENT		CEMENT
PUMP TRUCK	CEMENTER <u>TIM + BUD</u>	AMOUNT ORDERED <u>1000 GAL AS FLUSH</u>
# <u>352/181</u>	HELPER <u>BIPP + DAVID F</u>	<u>4 TSM 65/35 Foz 676 Gal 1/4" FS</u>
BULK TRUCK		<u>100M 60/40 Foz 276 Gal 10 TSM 1/4" FS</u>
# <u>259</u>	DRIVER <u>DON DUBAL</u>	COMMON <u>60M</u> @
BULK TRUCK		POZMIX <u>40M</u> @
# <u>341</u>	DRIVER <u>DON DUBAL</u>	GEL <u>2.4M</u> @
		CHLORIDE @
		ALW <u>4 TSM</u> @
		TR-SEAL <u>144#</u> @
		AS FLUSH <u>1000 GAL</u> @
		SMT <u>466#</u> @
		HANDLING <u>677 gal</u> @
		MILEAGE <u>617 at 0.5</u>

REMARKS: 1786
STAGE COLLAR AT 1847' ORDERED
STAGE COLLAR 850# CALULATED
TOP 400S (HAD CEMENT BAG)
MIXED 4 TSM 65/35 Foz 676 Gal
1/4" FS 100M 60/40 Foz 276 Gal 10 TSM 1/4" FS
TR-SEAL 144#
AS FLUSH 1000 GAL
SMT 466#
CEMENT ORDERED

SERVICE	DEPTH OF JOB <u>1847'</u>
	PUMP TRUCK CHARGE
	EXTRA FOOTAGE @
	MILEAGE @
	PLUG @
	@
	@

CHARGE TO: T+C MESS + OPER. CO.
 STREET DD. Box 225
 CITY Great Bend STATE Ks ZIP 67530

THANKS ALLIED (REW)

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Don Dubal

TOTAL	
FLOAT EQUIPMENT	
	@
	@
	@
	@
	@
TOTAL	
TAX	
TOTAL CHARGE	<u>622.00</u>
DISCOUNT	<u>622.00</u> IF PAID IN 30 DAYS

PRINTED NAME

National Cooperative Refinery Association

Chloride Recovery Disposal Well #1

API # 113-21289-00-00

W/2-E/2-NW/4 Sec.4-T20S-R3W

McPherson County, Kansas

KANSAS CORPORATION COMMISSION

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All Depths are Based on Kelly Bushing depths which is 9 feet above ground level

Ground Level

20" 94 #/ft Conductor Casing set at 230.4 feet. Cemented with 420 sks 60/40 poz. w/ 3% CaCl & 2% gel. Cement circulated to surface

13 3/8" 48 #/ft H-40 8rd casing set at 867 feet. Cemented with 600 sks 60/40 poz. w/ 3% CaCl, 4% gel & 1/4 # flo-seal per sk, followed w/ 200 sks 70/30 poz. w/ 3% CaCl & 2% gel. Cement Circulated to surface

D.V. Tool in 9 5/8" casing string at 1786 feet. Cemented 2nd stage with 475 sacks 65/45 poz. w/ 6% gel & 1/4 # flo-seal per sack, followed w/ 100 sks 60/40 poz. w/ 2% gel, 10% salt & 1/4 # flo-seal per sack

The 9 5/8" x 7" casing/tubing annulus is loaded with Fresh water containing Baker CRW 37-10 corrosion inhibitor for packer fluid.

Top of the Arbuckle at 3809'

Brown (Baker) Liner Hanger Packer set at 3850.32 feet. Packer set in compression with 40,000 lbs of weight. Packer is 7" x 9 5/8" nickle coated, 3.78 ft long with a .50 nickle coated 7" casing nipple screwed between the two joints of 7" tailpipe and the packer

9 5/8" N-80, 43.5#/ft 8rd casing set at 3868 feet. Ran a D.V. tool at 1796 feet. Cemented bottom stage w/ 250 sks 60/40 poz. w/ 6% gel, 1/2 of 1% CD-31 & 1/4# flo-seal per sack, followed with 500 sks 60/40 poz. w/ 6% gel. & 1/4# flo-seal per sack, followed with 150 sks ASC w/ 10% salt & 1/4 # flo-seal per sack

Arbuckle open hole from 3868' to 4300'

Two joints of 7" 23#/ft internally coated tubing used as tailpipe below the Brown Liner Hanger Packer. Bottom of the tailpipe at 3944.58'

4300'
4313'

Reagan open hole from 4313' to 4340'

4340'

Granite Wash open hole from 4340' to TD of 4391'

Total Depth @ 4391'


MFG & OPERATING, INC.
"Many options with one hat"
1-19-2004

Long = -97.66133° W Lat = 38.34437° N

CASING MECHANICAL INTEGRITY TEST

DOCKET # D-28,191

Disposal Enhanced Recovery:

N/2 S/2 NW, Sec 4, T 20 S, R 3 E

Repressuring

Flood

Tertiary

3983' Feet from South Section Line

3607' Feet from East Section Line

Date injection started

Lease Chloride Recovery Well # 1

API #15 - 113 - 81, 289-0000

County McPherson

Operator: NCR A

Operator License # 33255

Name &

Address P.O. Box 1404

Contact Person Charlie Yager

McPherson KS 6760-1404 Phone 620-798-5483

Max. Auth. Injection Press. VAC psi; Max. Inj. Rate 51,429 bbl/d;

If Dual Completion - Injection above production _____ Injection below production _____

	Conductor	Surface	Production	Liner	Size	Tubing
Size	<u>20"</u>	<u>13 3/8"</u>	<u>9 5/8"</u>		<u>7"</u>	
Set at	<u>230.4'</u>	<u>867'</u>	<u>3868'</u>		Set at	<u>3850.32'</u>
Cement Top	<u>0'</u>	<u>0'</u>	<u>0'</u>		Type	<u>J-55 (234)</u>
" Bottom	<u>230.4'</u>	<u>867' (8000)</u>	<u>3868' (9000)</u>			
DV/Perf.	<u>1796'</u>		TD (and plug back)	<u>4391'</u>		ft. depth
Packer type	<u>Baker Liner Hanger</u>		Size <u>9 5/8" X 7"</u>	Set at	<u>3850.32'</u>	
Zone of injection	<u>Shut-in Well</u> ft. to ft. <u>3868' to 4391'</u>		Perf. or open hole	<u>Open hole</u>		

Type Mit: Pressure Radioactive Tracer Survey Temperature Survey

F Time: Start 0 Min. 15 Min. 30 Min.

I 10:07

E Pressures: 354 352 352 Set up 1 System Press. during test 0

L _____ Set up 2 Annular Press. during test _____

D _____ Set up 3 Fluid loss during test 0 bbls.

D _____

A _____

T Tested: Casing or Casing - Tubing Annulus

A _____

The bottom of the tested zone is shut in with Baker Liner Hanger packer

Test Date 2-4-04 Using Bracken Line Cleaning Inc Company's Equipment

The operator hereby certifies that the zone between 0 feet and 3850.32' feet

was the zone tested X Charlie Yager X T&C

Signature Title

The results were Satisfactory , Marginal _____, Not Satisfactory _____

State Agent Michael R. Wilson Title PIRT II Witness: Yes No _____

REMARKS: Allius filled with treated water
* All depths are K.B. which is 9' above G.L.

Origin. Conservation Div.; KDHE/T; Dist. Office;

Computer Update

MFR