

ORIGINAL

KCC

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

APR NO. 15- 171-20,442-00-00  
County Scott  
SE SE NW Sec. 27 Twp. 19S Rge. 33W

RELEASED

CONFIDENTIAL

Operator: License # 5886 2970 Feet from S/N (circle one) Line of Section  
Name: Chief Drilling, Inc. 2970 Feet from E/W (circle one) Line of Section  
Address 120 S. Market  
Footages Calculated from Nearest Outside Section Corner:  
NE, SE NW or SW (circle one)

City/State/Zip Wichita, Kansas 67202  
Purchaser: Koch  
Operator Contact Person: Douglas W. Thimesch  
Lease Name Vulgamore Well # 1-27  
Field Name unnamed  
Producing Formation Kansas City

Phone (316) 262-3791  
Elevation: Ground 2967 KB 2974  
Contractor: Name: Chief Drilling, Inc. COMMISSION  
License: 5886 Total Depth 4750' PBDT 4016'  
Amount of Surface Pipe Set and Cemented at 242' Feet

Wellsite Geologist: Wesley D. Hansen  
Multiple Stage Cementing Collar Used? X Yes      No  
If yes, show depth set 2190 Feet  
Designate Type of Completion  
X New Well      Re-Entry      Workover

     Oil      SWD      SLOW      Temp. Abd.  
     Gas      ENHR      SIGW  
     Dry      Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
     Deepening      Re-perf.      Conv. to Inj/SWD  
     Plug Back      PBDT  
     Commingled      Docket No. \_\_\_\_\_  
     Dual Completion      Docket No. \_\_\_\_\_  
     Other (SWD or Inj?) Docket No. \_\_\_\_\_  
12-10-91 12-21-91 2-18-92  
Spud Date Date Reached TD Completion Date

Drilling Fluid Management Plan 3-16-92  
(Data must be collected from the Reserve Pit)  
Chloride content 24 ppm ppm Fluid volume 1,200 bbls  
Dewatering method used \_\_\_\_\_  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name \_\_\_\_\_  
Lease Name \_\_\_\_\_ License No. \_\_\_\_\_  
Quarter Sec. Twp. S Rng. E/W  
County \_\_\_\_\_ Docket No. \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

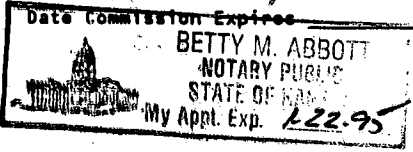
Signature Douglas W. Thimesch  
Title Vice President Date 3-4-92

Subscribed and sworn to before me this 3-4-92 day of 1992.

Notary Public Betty M. Abbott

Date Commission Expires 1-22-95

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)



SIDE TWO  
ORIGINAL

Operator Name Chief Drilling, Inc. Lease Name Vulgamore Well # 1-27

Sec. 27 Twp. 19S Rge. 33  East  West  
County Scott

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

<p>Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.)</p> <p>Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)</p> <p>List All E.Logs Run:  Radiation Guard</p>	<p><input type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Name</td> <td style="width: 25%;">Top</td> <td style="width: 25%;">Datum</td> </tr> </table> <p style="text-align: center;">See attached</p>	Name	Top	Datum
Name	Top	Datum		

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
Surface	12 1/4	8 5/8	20#	242'	pozmix	145	2%gel, 3% c.c.
Production	7 7/8	4 1/2		4461'	ASC	150	10bbl.flush

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing	4134-39	common	200	no additives
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone	4139-4296	common	200	no additives

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)
4/ft	4270-4277'	500 gal 15% INS
4/ft	4308-4314'	500 gal 15% INS, 1000 gal 15% INS, 100 gal 28% w/400 gal 15% INS, 1100 gal 15% INS, 2500 gal 28% INS.
4/ft	4229-4234'	500 gal 15% INS.
4/ft	4104-4113'	500 gal 15% INS.
4/ft	4048-4052'	500 gal 15% INS
4/ft	3960-3969'	1000 gal 15% INS.

Date of First, Resumed Production, SWD or Inj. 2-18-92	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil Bbls. 50 Gas Mcf -0- Water Bbls. 30 Gas-Oil Ratio 21° Gravity

Disposition of Gas: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	METHOD OF COMPLETION <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify)	Production Interval
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Chief Drilling, Inc.  
120 S. Market #300  
Wichita, KS 67202

KCC ORIGINAL  
MAR 06  
CONFIDENTIAL

#1-27 Vulgamore  
SE SE NW, Sec. 27-19S-33W  
Scott Co., Kansas

ACO-1 Additional Sheet

API #15-171-20442-00  
RELEASED

APR 12 1993

FORMATION TOPS:

Anhydrite	2171	+803
Base/Anhy	2190	+784
Heebner	3813	-839
Lansing	3857	-883
B/Pleasanton	4289	-1315
Marmaton	4303	-1329
Fort Scott	4423	-1449
Morrow Shale	4573	-1599
Mississippi	4637	-1663
RTD	4750	-1776

LOG TOPS:

Base/Anhy	2187	+787
Heebner	3815	-841
Lansing	3860	-886
Hushpuckney	4213	-1239
B/Pleasanton	4284	-1310
Marmaton	4308	-1334
Pawnee	4390	-1416
Ft. Scott	4428	-1454
Cherokee	4453	-1479
Morrow Sh	4574	-1600
Mississippi	4639	-1665
LTD	4753	-1779

FROM CONFIDENTIAL

DST #1 3947-3969 (Lans'E')  
30-45" 60-60", Strong blow thru  
out. Rec. 180' GIP, 250' clean  
gassy oil, 50' oily wtr. (70% oil),  
270' wtr., 59,000 clh. IF 107/151#  
178/255#, BHP 491/491#, Hyd 1893/  
1802#, 120°

DST #2 4040-4110 (Lans'H'&'I')  
30-45" 60-60", Rec. 20' clean  
oil, 130' oily mud (41% oil)  
FP 110/110# 165/165#, BHP 989/  
934#. Hyd 1963/1909#

DST #3 4118-4134  
30-30" 30-30", Very strong  
blow thru out. Rec.  
1,800' wtr., Clh. 61,000,  
FP 133/491# 580/759#, BHP  
1119/1119#, Hyd 1985/1939#  
Temp 121°

DST #4 4230-4316 (Lower KC, Pleas.  
& top Marm) very strong blow  
30-30" 30-30", Rec. 1320' clean  
gassy oil, 21° gravity, 90' MCO,  
no wtr. IF 169/401# 491/580#  
BHP 1074/1074#, Hyd 2123/2077#, 125°

DST #5 4250-4316 (Pleas. & top Marm)  
Very strong blow, 30-30" 30-30"  
Rec. 1110' clean gassy oil, 20°, 90'  
MCO, no wtr. IF 125/294#, 375/491#,  
BHP 983/965#, Hyd 2123/2077#, 125°

DST #6 4341-4380 (Marm.'C')  
Wk blow died 8", no blow 2nd opening  
30-30" 30-30", Rec. 1' mud, no shows  
FP 35/35" 35/35#, BHP 401/357#  
Hyd 2169/2123#, 119°

DST #7 4572-4650 (Morrow Sd)  
30-30" 30-30", Wk blow, No blow 2nd  
opening. Rec. 5' Mud, no show.  
IF 44/44# 44/44#, BHP 89/44#, Hyd  
2261/2215#, 121°

RECEIVED  
STATE CORPORATION COMMISSION

MAR - 9 1992

CONSERVATION DIVISION  
Wichita, Kansas

ORIGINAL

KCC

RELEASED

Phone 913-434-2812, Russell, Kansas  
Phone 316-793-5861, Great Bend, Kansas

MAR 06  
CONFIDENTIAL

Phone Plainville 913-434-2812  
Phone Ness City 913-798-3842

# ALLIED CEMENTING CO., INC.

CONFIDENTIAL

NO 6615

Home Office P. O. Box 31

Russell, Kansas 67665

*new*

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
1-30-92	27	19	33	6 AM	7:45 AM	9:10	
Lease	Well No. 1-27		Shallowater 53W 12N		County	State	
Contractor	Cheyennes		Owner		Lance		
Type Job	Squeeze		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 listed.				
Hole Size	4 1/2		T.D.				
Csg.	2 1/2		Depth				
Tbg. Size	2"		Depth				
Drill Pipe	P Plug		Depth 4296				
Tool	Disc		Depth 4139				
Cement Left in Csg.			Shoe Joint				
Press Max.	2000		Minimum				
Meas Line			Displace				
Perf.	4270-77						

Charge To: Chief Duly  
Street: Box 240  
City: Hoisington State: Ks. 67544

The above was done to satisfaction and supervision of owner agent or contractor

Purchase Order No. X *Mary [Signature]*

CEMENT

EQUIPMENT

No.	Cementer	<i>[Signature]</i>
Pumptrk 158	Helper	<i>[Signature]</i>
No.	Cementer	
Pumptrk	Helper	
	Driver	<i>[Signature]</i>
Bulktrk 116	Driver	

Amount Ordered	200 Com	
Consisting of		
Common	200	5.25 1050.00
Poz. Mix		
Gel.		
Chloride		
Quickset		
Handling	200	1.00 200.00
Mileage	65	520.00
Sales Tax		
Sub Total		
Total		1770.00

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MAR - 9 1992

CONSERVATION DIVISION Kansas

DEPTH of Job	4277'	
Reference:	Pump trucks	880.00
	65 mileage	130.00
Sub Total		
Total		1010.00

Remarks: Input 2 bbl 1400# mix 200 sks  
Com, staged 10 min 200# washed  
back do short press - 2000 OK -  
washed 90 ft cement out of csg -  
Thank you!

TOTAL \$ 2780.00  
DISC - 417.00  
# 2363.00

610

Date	1-25-92	Sec.	27	Twp.	19s	Range	33w	Called Out	4:30 A.M.	On Location	7:45 A.M.	Job Start	8:30 A.M.	Finish	12:00 noon
Lease	<del>W</del> Vulgamore	Well No.	1-27	Location	Shallow Water 1/2s, 3w 1/2m			County	Scott	State	KS				
Contractor	Cheyenne Well Service KCC														
Type Job	Squeeze														
Hole Size	4 1/2														
Csg.	2"														
Tbg. Size	2"														
Drill Pipe	Packer														
Tool	Cement Left in Csg.														
Press Max.	1500#														
Meas Line	Perf. 4270-4277 28 shots B.P. 4300'														

EQUIPMENT

Pumptrk #46	No.	Cementer	Steve Kopper
		Helper	Don
Pumptrk	No.	Cementer	Jack W.
		Helper	
Bulktrk #116		Driver	Keith
		Driver	

DEPTH of Job	4277'	
Reference:	Pump Truck	450.00
	Pump Truck	880.00
	65 Mileage	130.00
	<del>Sub-Total</del>	
	<del>Fare</del>	
	Total	1460.00

Remarks: Load backside to 750# Injection Rate  
 2 bbl @ 800# mixed 200ask cement down tubing  
 @ 800 to 1000#. Displace to 15 1/2 bbls and staged washed  
 tubing out lost all pressure staged for another 1hr  
 displaced cement into perf. shut tubing into @ 700# + B.S. @ 400'  
 After pulling 105ts

Owner Same  
 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 listed.  
 Charge ~~100~~ Chief Drilling Inc.  
 Street Box 240  
 City Haysington State Ks 67544  
 The above was done to satisfaction and supervision of owner agent or  
 contractor.  
 Purchase Order No.  
 x *Ray Lindemuth*  
 CEMENT

Amount Ordered	200ask Common		
Consisting of			
Common	200	5.25	1050.00
Poz. Mix			
Gel.			
Chloride			
Quickset			
		Sales Tax	
Handling	200	1.00	200.00
Mileage	65		520.00
		Sub-Total	
		Total	1770.00

THANK YOU!

Floating Equipment  
 Total \$ 3230.00  
 TAX 137.28

# 2862.18

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MAR - 9 1992

CONSERVATION DIVISION Wichita, Kansas

ORIGINAL

KCC

# ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

MAR 06  
CONFIDENTIAL  
Russell, Kansas 67665

No 2864

*New*

Date <i>12-21-91</i>	Sec. <i>27</i>	Twp. <i>19</i>	Range <i>33</i>	Called Out <i>8:00 AM</i>	On Location <i>11:30 AM</i>	Job Start <i>7:00 AM</i>	Finish <i>7 PM</i>
Lease <i>Vulgamore</i>	Well No. <i>1-27</i>	Location <i>Shallowater 1/2S 3W 1/4NE</i>		County <i>Scott</i>	State <i>Ka</i>		
Contractor <i>Chief Drilling</i>				Owner <i>Same</i>			
Type Job <i>Two Stage - Bottom stage</i>				To <i>Allied Cementing Co., Inc.</i>			
Hole Size <i>7 1/4</i>				T.D. <i>4750'</i>			
Csg. <i>4 1/2</i>				Depth <i>4461'</i>			
Tbg. Size				Depth			
Drill Pipe				Depth			
Tool <i>Baker two stage tool</i>				Depth <i>2190'</i>			
Cement Left in Csg.				Shoe Joint <i>16'</i>			
Press Max. #				Minimum			
Meas Line <i>yes</i>				Displace <i>70.6</i>			
Perf.							

RELEASED  
FROM CONFIDENTIAL

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To *Chief Dng Trc*

Street *Box 240*

City *Hawkington* State *Ks. 67544*

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. *[Signature]*

**CEMENT**

*New City*

EQUIPMENT		
No.	Cementer	
Pumptrk <i>158</i>	Helper	
No.	Cementer	<i>J.D.</i>
Pumptrk	Helper	<i>Bob</i>
	Driver	<i>Bill</i>
Bulktrk <i>69</i>		
Bulktrk	Driver	

Amount Ordered	<i>150 BX ASC 10 BBL WFR 2</i>	
Consisting of		
Common	<i>150 ASC</i>	<i>7.25 1087.50</i>
Poz. Mix		
Gel.		
Chloride		
Quickset	<i>WFR 2 420 lbs.</i>	<i>210.00</i>
Handling	<i>150</i>	<i>1.00 150.00</i>
Mileage	<i>600</i>	<i>396.00</i>
Total	<i>\$ 3617.50</i>	<i>Sub Total</i>
	<i>Disc - 542.63</i>	
	<i>\$ 3074.87</i>	<i>Total 1843.50</i>

DEPTH of Job		
Reference:	<i>Pump trk charge</i>	<i>880.00</i>
<i>600</i>	<i>mileage</i>	<i>132.00</i>
	<b>Sub Total</b>	
	<b>Total</b>	<i>1012.00</i>

Remarks: *Float did hold*

Floating Equipment

<i>Baker insert</i>	<i>- 169.00</i>
<i>Guide shoe</i>	<i>- 109.00</i>
<i>6 centralizers</i>	<i>- 258.00</i>
<i>2 Baskets</i>	<i>- 226.00</i>

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NO WARRANTY ON FLOAT EQUIPMENT

CONSERVATION DIVISION  
Topeka, Kansas

762 000 9 1992

# ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

**CONFIDENTIAL**

KCC

**ORIGINAL**

No 2865

New

Date	12-21-91	Sec.	27	Twp.	19	Range	33	Called Out	✓	On Location	✓	Job Start	7:30 am	Finish	8:45 pm
Lease	Vulgamore	Well No.	1-27	Location				Shallowater 1/2 E 3 W 1/4 N		County	Scott	State	Ka		
Contractor	Chief Drilling														
Type Job	Two Stage - Top Stage														
Hole Size	7 7/8	I.D. 4750													
Csg.	4 1/2	Depth													
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool	Baker two stage tool	Depth 2190'													
Cement Left in Csg.		Shoe Joint ✓													
Press Max.	# 1500	Minimum													
Meas Line	yes	Displace ✓ 34.8													
Perf.															

**RELEASED**

**FROM CONFIDENTIAL**

Owner Name  
 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 listed.

Charge To  
 Chief Drilling Inc.  
 Street  
 Box 240  
 City  
 Herington State  
 Mo. 67544  
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.  
 X *Allen Lindemann*  
**CEMENT**

Amount Ordered  
 450 lbs. 1/4" flo seal per ex

Consisting of  
 Common 450 lbs 4.25 1912.50  
 Poz. Mix  
 Gel.  
 Chloride  
 Quickset

Flo Seal 113 1.00 113.00

Handling 450 1.00 450.00

Mileage 66 1188.00

Total \$ 7078.50  
 Disc - 1061.78  
 \$ 6016.72 Total 3663.50

Floating Equipment  
 1. Baker 2 stage D.V. Tool. - 2940.00

### EQUIPMENT

No.	Cementer	Helper
Pumptrk 158		
Pumptrk	J.D.	Bob
Bulktrk 179	Driver	Yancy
Bulktrk	Driver	

DEPTH of Job		Reference:	Amount
	Pump trk charge		475.00
	mileage		NIC
	Sub-Total		
	Total		475.00

Remarks: Cement did circ close stage collar at 1500'

*I thank you*

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CONSERVATION DIVISION Wichita, Kansas

NO WARRANTY ON FLOAT EQUIPMENT

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2% Charged Thereafter.

KCC

Phone 913-483-2627, Russell, Kansas  
Phone 316-793-5861, Great Bend, Kansas

MAR 06 ORIGINAL

Phone Plainville 913-434-2812  
Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

Home Office P. O. Box 377 Russell, Kansas 67665

No 3021

Date	12-10-91	Sec.	27	Twp.	19	Range	33	Called Out	10:30 AM	On Location	12:30	Job Start	2:15 PM	Finish	2:35 PM	
Lease	Vulgamore	Well No.	1-27	Location	Shallowater 1/2 S 3W 1/2 N 1/2 E				County	Scott	State	Kansas				

Contractor	Chief Drilling Inc		
Type Job	Surface		
Hole Size	12 1/4	T.D.	245'
Csg.	8 5/8	Depth	245'
Tbg. Size		Depth	
Drill Pipe		Depth	
Tool		Depth	
Cement Left in Csg.	15'	Shoe Joint	
Press Max.		Minimum	
Meas Line	NO	Displace	14.9
Perf.			

Owner	same
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 listed.	
Charge To	Chief Drilling Inc
Street	Box 240
City	Hoisington State Ko 67544
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
X	H. F. [Signature]
<b>CEMENT</b>	
Amount Ordered	150 cu yd 60/40 2% gel 3% cc

### EQUIPMENT

Pumptrk #158	Cementer	
	Helper	
Pumptrk #116	Cementer	Super
	Helper	Bill
	Driver	Keith
Bulktrk #116	Driver	

Consisting of			
Common	90	5.25	472.50
Poz. Mix	60	2.25	135.00
Gel.	3	6.75	NIC
Chloride	5	21.00	105.00
Quickset			

DEPTH of Job		
Reference:	Pump trk charge	380.00
	600 Mileage	132.00
	1-8 5/8 TWP	42.00
	Sub Total	
	Tax	
	Total	554.00

Sites Tax		
Handling	150	1.00 150.00
Mileage	66	396.00
Sub Total		
Total		1258.50

Remarks: Cement did circulate.

Thank you

Floating Equipment

Total \$1812.50

Disc - 271.88

RECEIVED  
STATE CORPORATION COMMISSION  
\$ 1540.62 9 1992

CONSERVATION DIVISION  
Kansas