

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

API NO. 15- 155-21,300 ⁰⁰⁰⁰ ORIGINAL

County Reno

Sec. 22 Twp. 25S Rge. 9W XW

2310' Feet from (S)N (circle one) Line of Section

3190' Feet from (E)W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, (SE) NW or SW (circle one)

Lease Name Shaffer "A" Well # 1-22

Field Name Langdon

Producing Formation Mississippian

Elevation: Ground 1639' KB 1648'

Total Depth 4000' PBDT 3963'

Amount of Surface Pipe Set and Cemented at 191 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cnt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content 15000 ppm Fluid volume 1380 bbls

Dewatering method used Haul/Evaporate

Location of fluid disposal if hauled offsite:

Operator Name C & C Tank Service, Inc.

Lease Name Roach SWD License No. 30708

SW/4 Quarter Sec. 14 Twp. 23 S Rng. 9 (W)

County Reno Docket No. 22208

Operator: License # 5142

Name: Sterling Drilling Company

Address 6th and Cleveland

P. O. Box 129

City/State/Zip Sterling, Kansas 67579

Purchaser: Texaco Trading

Operator Contact Person: Steve E. McClain

Phone (316) 278-2131

Contractor Name: Sterling Drilling Company

License: 5142

Wellsite Geologist: Steve E. McClain

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, MSW, 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. _____

11-4-93 11-9-93 11-23-93

Spud Date Date Reached TD Completion Date

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.

STERLING DRILLING COMPANY

Signature Steve E. McClain

Title President Date 3-29-94

Subscribed and sworn to before me this 29th day of March 19 94.

Notary Public Cathy Nuest

Date Commission Expires _____

NOTARY PUBLIC - State of Kansas
CATHY NUEST
My Appt. Exp. 10-9-95

RECEIVED

STATE CORPORATION COMMISSION
K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Geologist Report Received 4-1-94

CONSERVATION DIVISION
Wichita, Kansas

KCC SWD/Rep NGPA

KGS Plug Other

(Specify)

P1

Operator/Name: Sterling Drilling Company

Lease Name: Shaffer "A" Well #: 1-22

Sec. 22 Twp. 25S Rge. 9W East

County: Reno

West

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.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

List All E.Logs Run:
 SDL/DSN, DIL, FF-MXG, Coral

Log	Formation (Top)	Depth and Datum	Sample
Name	Top	Datum	
Heebner Shale	3121	-1473	
Brown Ls.	3303	-1655	
Lansing	3335	-1687	
BKC	3688	-2040	
Cherokee Sh.	3789	-2141	
Mississippian	3823	-2175	
Miss. Ls.	3896	-2248	
Kinderhood Sh.	3899	-2251	

CASING RECORD <input type="checkbox"/> New <input checked="" 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 (New)	12 1/4"	8 5/8"	23#	191	50/40 Poz	200	2% gel, 3% cc
Production(Used)	7 7/8"	5 1/2"	14#	3992	Lite	75	18% salt, 2% gel, 5# Gil.
					50/50 Poz	125	

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				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

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
4	3840 - 3848	Natural	3840-48

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2 7/8	3905	None		
Date of First Resumed Production, SWD or Inj.		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
December 6, 1993						
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
	22	150	300	6818	33	

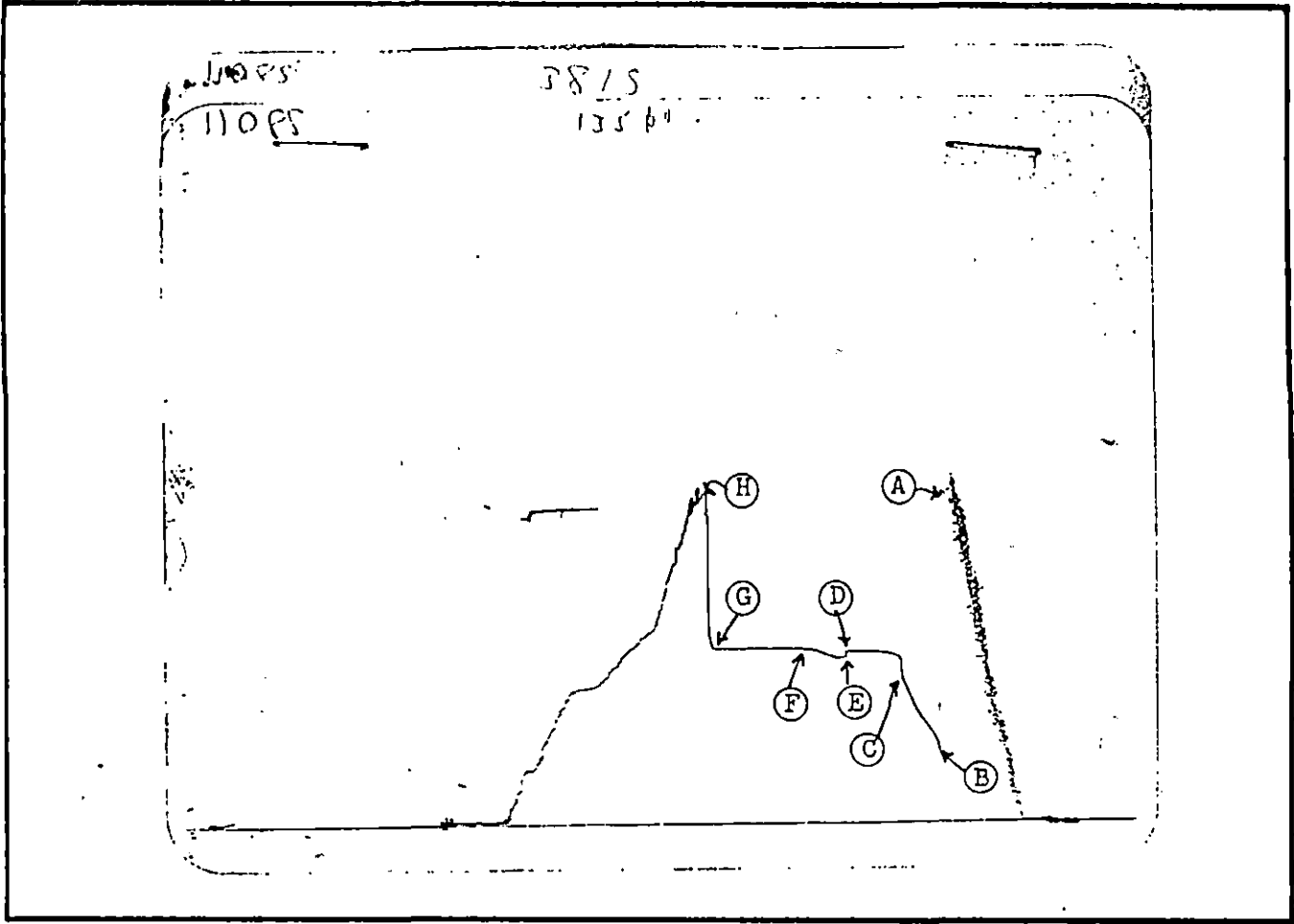
Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perforated Dually Comp. Coamingled Other (Specify)

Production Interval: 3840 - 48

ORIGINAL

COMPANY Sterling Drilling Company LEASE - WELL NO Shaffer "A" #1-22 SEC 22 TWP 25s RGE 9W TEST NO. 2 DATE 11-9-1993



This is an actual photograph of recorder chart.

POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	1884	1882	P.S.I.
(B) First Initial Flow Pressure	409	396	P.S.I.
(C) First Final Flow Pressure	840	826	P.S.I.
(D) Initial Closed-in Pressure	997	988	P.S.I.
(E) Second Initial Flow Pressure	945	943	P.S.I.
(F) Second Final Flow Pressure	997	1004	P.S.I.
(G) Final Closed-in Pressure	997	1007	P.S.I.
(H) Final Hydrostatic Mud	1874		

RECEIVED

STATE CORPORATION COMMISSION

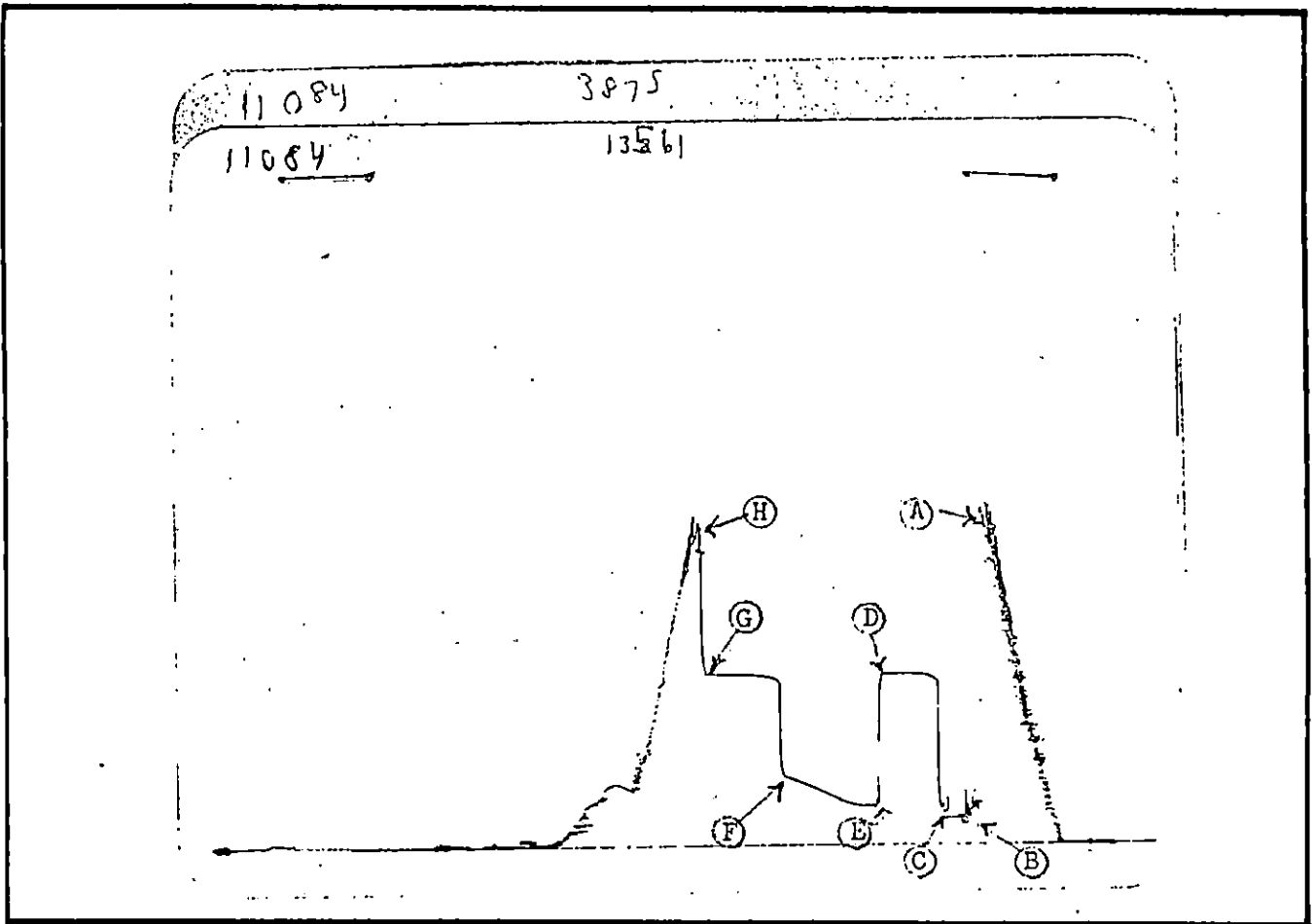
APR 01 1994

CONSERVATION DIVISION
Wichita, Kansas

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ORIGINAL

COMPANY Sterling Drilling Company LEASE WELL NO Scharfer "A" #1-22 SEC 22 TWP 25E RGE 9W TEST NO 1 DATE 11-8-1993



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	1864	1829	P.S.I.
(B) First Initial Flow Pressure	147	202	P.S.I.
(C) First Final Flow Pressure	168	152	P.S.I.
(D) Initial Closed-in Pressure	987	980	P.S.I.
(E) Second Initial Flow Pressure	231	226	P.S.I.
(F) Second Final Flow Pressure	399	392	P.S.I.
(G) Final Closed-in Pressure	987	982	P.S.I.
(H) Final Hydrostatic Mud	1853	1745	P.S.I.

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Wichita, Kansas

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ORIGINAL

DALLAS, TX 75395-1046

INVOICE

RECEIVED
NOV 12 1993
[Signature]

HALLIBURTON

INVOICE NO.	DATE
641728	11/04/1993

WELL/LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
SHAFER 'A' I-22	RENO	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
PRATT	CO. TOOLS	CEMENT SURFACE CASING	11/04/1993
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
847190	LARRY BELDING		
			SHIPPED VIA
			COMPANY TRUCK
			FILE NO.
			5919

DIRECT CORRESPONDENCE TO:

STERLING DRLG CO
BOX 129
STERLING, KS 67579

OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2000
OKLAHOMA CITY, OK 73102-5601

REFERENCE NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	64	MI	2.75	176.00
		1	UNT		
001-016	CEMENTING CASING	190	FT	575.00	575.00
		1	UNT		
030-503	CMTG PLUG LA-11, CP-1, CP-3, TOP	8.625	IN	95.00	95.00
		1	EA		
504-136	CEMENT - 40/60 POZMIX STANDARD	200	SK	5.68	1,136.00
509-406	ANHYDROUS CALCIUM CHLORIDE	5	SK	28.25	141.25
500-207	BULK SERVICE CHARGE	210	CFT	1.35	283.50
500-306	MILEAGE CMTG MAT DEL OR RETURN	279.26	TMI	.95	265.30
	INVOICE SUBTOTAL				2,672.05
	DISCOUNT-(BID)				480.96-
	INVOICE BID AMOUNT				2,191.09
	*-KANSAS STATE SALES TAX				73.37
	*-PRATT COUNTY SALES TAX				14.98
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$2,279.44

[Handwritten Signature]

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account plus all collection and court costs.

INVOICE



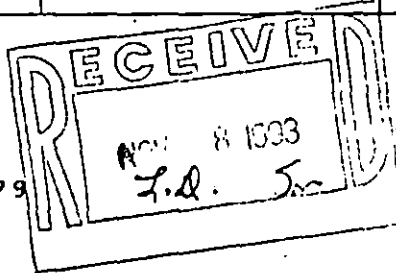
DALLAS, TX 75395-1046

INVOICE NO.	DATE
509911	11/10/1993

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
SHAFFER "A" 1-22	RENO	KS	SAME

SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
PRATT	STERLING DRILLING #2	CEMENT PRODUCTION CASING	11/10/1993		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
847190	LARRY BELDING			COMPANY TRUCK	5948

STERLING DRLG CO
BOX 129
STERLING, KS 67579



DIRECT CORRESPONDENCE TO:
OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2000
OKLAHOMA CITY, OK 73102-5601

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	64	MI	2.75	176.00
		1	UNT		
001-016	CEMENTING CASING	3992	FT	1,455.00	1,455.00
		1	UNT		
030-016	CEMENTING PLUG SW ALUM TOP	5	1/2 IN	60.00	60.00
		1	EA		
018-317	SUPER FLUSH	12	SK	100.00	1,200.00
40	CENTRALIZER-5-1/2 X 8-1/2	5	EA	44.00	220.00
806.60022					
24A	INSERT FLOAT VALVE - 5 1/2" 8RD	1	EA	110.00	110.00
815.19251					
27	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	55.00	55.00
815.19313					
320	CEMENT BASKET 5 1/2"	1	EA	110.00	110.00
800.8883					
12A	GUIDE SHOE - 5 1/2" 8RD THD.	1	EA	121.00	121.00
825.205					
019-241	CASING SWIVEL W/O WALL CLEANER	1	JOB	185.00	185.00
504-316	CEMENT - HALL. LIGHT STANDARD	75	SK	6.43	482.25
504-130	CEMENT - 50/50 POZMIX STANDARD	125	SK	5.35	668.75
508-291	GILSONITE BULK	625	LB	.40	250.00
509-968	SALT	1150	LB	.13	149.50
507-210	FLOCELE	16	LB	1.40	22.40
507-153	CFR-3	76	LB	4.85	368.60
509-968	SALT	250	LB	.13	32.50
500-207	BULK SERVICE CHARGE	235	CFT	1.35	317.25
500-306	MILEAGE CMTG MAT DEL OR RETURN	292	TMI	.95	292.05

INVOICE SUBTOTAL

6,275.30

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Wichita, Kansas
RM

***** CONTINUED ON NEXT PAGE *****

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer shall pay the cost of the unpaid account plus all collection and court costs.



HALLIBURTON
ENERGY SERVICES

TICKET CONTINUATION

COPY

TICKET
No. 509911-6

FORM 1911 R-8

CUSTOMER STERLING DRILLING CO	WELL 1-22 SHAFFER "A"	DATE 11-10-93	PAGE 2	OF 2
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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF									
504-316		1				HALLIBURTON LIGHT CEMENT	75	sk			6.43	482.25	
504-130		1				50/50 POZMIX W2% GEL	125	sk			5.35	668.75	
508-291	516.00337	1				GILSONITE BLENDED 5#	625	lb			.40	250.00	
509-968	516.00158	1				SALT BLENDED 18%	1150	lb			.13	149.50	
507-210	890.50071	1				FLOCELE BLENDED 1/8#	16	lb			1.40	22.40	
507-153	516.00161	1				CFR-3 BLENDED .75%	76	lb			4.85	368.60	
509-968	516.00158	1				SALT NOT MIXED	250	lb			.13	32.50	
500-207						SERVICE CHARGE				CUBIC FEET 235	1.35	317.25	
500-306						MILEAGE CHARGE				LOADED MILES 32		292.04	
						TOTAL WEIGHT				TON MILES 307.42	.95		

CONSERVATION DIVISION
Wichita, Kansas

APR 01 1994

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CONTINUATION TOTAL
2583.29