

ORIGINAL

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

API NO. 15- 189-21853-00-00

Operator: License # 5208

County Stevens

Name: Mobil Oil Corporation

- NW - SE - SE Sec. 10 Twp. 34s Rge. 38 E
X W

Address P.O. Box 2173

1250 Feet from S/N (circle one) Line of Section

2319 North Kansas Avenue

1250 Feet from E/W (circle one) Line of Section

City/State/Zip Liberal, KS 67905-2173

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

Purchaser: Spot Market

Lease Name Grace #1 Unit Well # 4

Operator Contact Person: Sharon Cook

Field Name Hugoton

Phone (316) 626-1142

Producing Formation Chase

Contractor: Name: Cheyenne Drilling

Elevation: Ground 3222 KB 3233

License: 5382

Total Depth 2990 PBTB 2925

Wellsite Geologist: L. J. Reimer

Amount of Surface Pipe Set and Cemented at 749 Feet

Designate Type of Completion

Multiple Stage Cementing Collar Used? Yes X No

X New Well Re-Entry Workover

If yes, show depth set NA Feet

Oil SWD SLOW Temp. Abd.

If Alternate II completion, cement circulated from NA

X Gas ENHR SIGW

feet depth to NA w/ NA sx cmt.

Dry Other (Core, WSW, Expl., Cathodic, etc)

Drilling Fluid Management Plan ALT 1 8/24 9-13-95
(Data must be collected from the Reserve Pit)

If Workover:

Chloride content 400 ppm Fluid volume 180 bbls

Operator: _____

Dewatering method used Waste Minimization Mud System

Well Name: _____

Location of fluid disposal if hauled offsite:

Comp. Date _____ Old Total Depth _____

Operator Name Mobil Oil Corporation

Deepening Re-perf. Conv. to Inj/SWD

Lease Name C. W. Creamer #1 SWDW License No. 5208

Plug Back PBTB

NE Quarter Sec. 23 Twp. 34 S Rng. 37 E/W

Commingled Docket No.

County Stevens Docket No. D-19,411

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

11-17-94 11-21-94 12-21-94

Spud Date 11-17-94 Date Reached TD 11-21-94 Completion Date 12-21-94

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 Sharon A. Cook Sharon A. Cook

Title Regulatory Assistant Date 2-20-95

Subscribed and sworn to before me this 20th day of February, 1995.

Notary Public Kathleen R. Poulton

Date Commission Expires August 18, 1998

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep <input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other
(Specify)		



FEB 23 1995

Form ACO-1 (7-91)

CONSERVATION DIVISION
WICHITA, KANSAS

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Grace #1 Unit Well # 4
 Sec. 10 Twp. 34S Rge. 38 East County Stevens
 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Glorietta		
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Stone Corral		
List All E.Logs Run:		Chase		
Logging tool stuck. Could not run logs.		Council Grove		

CASING RECORD <input checked="" 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 Casing	12.250	8.625	24#	749	Class C	200 sx	50:50 C/poz
					Class C	175 sx	50:50 C/poz
Production Casing	7.875	5.500	14#	2979	Class C	220 sx	3% D79
					Class C	220 sx	2% B28

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
1	*See attached Well History Report. 2664'-2684' 2652'-2658'		
2	2694'-2704' 2634'-2644' 2610'-2620'		
2	2758'-2768' 2735'-2750'		
1	2780'-2790' 2798'-2818' 2834'-2844'		

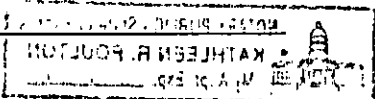
TUBING RECORD	Size None	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 12-20-94	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas 355 Mcf	Water Bbls.	Gas-Oil Ratio Gravity

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled

Production Interval: 2610-
2844

Other (Specify) _____



Well Data - Well History Report

Lease: GRACE #1 UNIT WELL #4 Well #: 4 Well ID: 0053023
API #: 15-189-21853-00 State: KS County: STEVENS
Ppty ID: 1997400 OCSG #:

Spud Date: 11/17/1994 Water Depth: 0 KB Height: 11
Spud Time: 15:00 Original Ref Point: KB BH Height: 0
DF Height:

ORIGINAL

Drilling Job Start/End: 11/17/94 @ 15:00 to 11/21/94 @ 13:30
Completion Job Start/End: 11/29/94 @ 17:00 to 12/21/94 @ 10:00

Table with columns DATE and ACTIVITY. Rows include 11/17/94 CASING OD: 8.625, 24.00# US50, Top/Bot: 0/749 and 11/21/94 CASING OD: 5.500, 14.00# US50, Top/Bot: 0/2979.

WELLBORE SUMMARY

Table with columns API WB#, Creation Date, Top, TD, Diam(@TD), Plug Back Date, and Depths PBTD. Rows show data for API 00 on 11/17/94 and 11/21/94.

CASING SUMMARY

Table with columns Date RUN, String, OD, ID, Grade, Wt/FT, Connection, and Top/Bot. Rows show casing data for 11/17/94 and 11/21/94.

PERFORATION SUMMARY

Table with columns Perf Date, Top Perf, Btm Perf, Zone Name, Phase Hole, and SPF (deg) Size J/B Sqzd.

RECEIVED STATE CORPORATION COMMISSION

FEB 23 1995

COIN. WICHITA, KANSAS

* PERFORATION TIME CODE ACTIVITY

Table with columns DATE, HOURS, CODE, and ACTIVITY. Row shows 1994-11-29 4.00 636 MIRU SCHLUMBERGER WIRELINE, PERFORATE W / 4" CSG GUNS. FT. RILEY: 2834'-44', TOW ANDA: 2780'-90' & 2798'-818', GAGE: 2758

Well Data - Well History Report

'-68', WINFIELD: 2735'-50'. TOTAL HOLES 90. R/D SCHL.

ORIGINAL

1994-12-03 7.00 636 R/U SCHLUMBERGER, W/O LUBRICATOR. PERFORATE: L. DRIDER: 2664'-84' (1 SPF) & 2694'-704' (2 SPF), U. KRIDER: 2634'-44' (2 SPF) & 2652'-58' (1 SPF) HERINGTON: 2610'-20' (2 SPF). TOTAL HOLES 91.

*WELL TREATMENT TIME CODE ACTIVITY

DATE	HOURS	CODE	ACTIVITY
1994-11-30	3.00	657	R/U DOWELL, TEST LINES TO 3100 PSI. ACIDIZE W/ 1000 GALS 7.5% HCL & 1000 GALS WT R IN ALTERNATING 500 GAL STAGES. DROPPED 175 BALLS, GOOD BALL ACTION, BALLED OUT @ 1622, BLREKDOWN @ 2218 PSI, 6 BPM. R/U ATLAS, RIH W/ GAUGE RING & KNOCK OFF BALLS.
1994-11-30	.50	655	TEST LINES TO 3100 PSI, FRAC'D DOWN CSG W/ 315 BBLs OF YF 115 LG FLUID & 23000 LBS OF 10/20 FINE SD. AVG RATE 40 BPM, RAMPED SD F/ 1-6 ppg. 5 # @ PERFS. SCREENED OUT W/ 7 BBLs FLUSH. MAX 2810 PSI. R/D DOWELL. SWI.
1994-12-05	5.00	657	R/U DOWELL, TEAT LINE TO 3000 PSI. ACIDIZE W/ 10000 GALS 7.5% HCL& 1000 GALS FW IN 500 GAL STAGES, STARTING W/ FW. DROPPED 175 BALLS. GOOD BALL ACTION, NO BALL OUT. BREAKDOWN W/ 2187 PSI @ 8 BPM.KNOCK OFF BALL W/ CSG TOOLS.
1994-12-05	.50	655	FRAC'D DOWN CSG W/ 819 BLLS YF 115 LG FLUID & 76493 LBS OF 10/20 SD. AIR 45 BPM. RAMPED SD F/ 1-9 ppg. NO SCREEN OUT, FLUSH W/ 60 BBLs FW. MAX 750 PSI, ISIP 147, 5 MIN 14 PSI. TAG PROP/W SC_46 ZW 27 M CI.

CEMENTING SERVICE REPORT

Schlumberger
Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 27-12-6658
DATE: 11-21-94
STAGE: 1 DS: 03 DISTRICT: 13 UKS

DS-498-A PRINTED IN U.S.A.

WELL NAME AND NO.: **GRAND #1-4**
FIELD-POOL: **HUGGON**
COUNTY/PARISH: **STEVENS**
LOCATION (LEGAL): **SEC. 10-345-38W**
FORMATION:
STATE: **KS** API. NO.:

RIG NAME: **CHRYSENE #4**
WELL DATA: **BOTTOM** TOP
BIT SIZE: **8 7/8** CSG/Liner Size: **5 1/2**
TOTAL DEPTH: **14** WEIGHT:
 ROT CABLE FOOTAGE: **2979**
MUD TYPE: **USS-50** GRADE:
 BHST BHCT THREAD: **8 RD**
MUD DENSITY: **7.935** LESS FOOTAGE SHOE JOINT(S):
MUD VISC.: **71.6** Disp. Capacity: **71.6** TOTAL:

NAME: **ROCKWELL OIL CORP.**
AND:
ADDRESS:
ZIP CODE:

ORIGINAL

SPECIAL INSTRUCTIONS: **2nd cement, 5 1/2 L/S above
customer's instructions, no indication below**

NOTE: Include Footage From Ground Level To Head In Disp. Capacity
SHOE: TYPE: **2 1/2" FHL PLUG** DEPTH: **2935**
TYPE: **CMT. UPSIDE** DEPTH: **2979**

IS CASING/TUBING SECURED? YES NO
LIFT PRESSURE: **1756** PSI CASING WEIGHT + SURFACE AREA (3.14 x R²):
PRESSURE LIMIT: PSI BUMP PLUG TO: **780** PSI
ROTATE: **0** RPM RECIPROCATATE: **0** FT No. of Centralizers:

Head & Plugs: TBG D.P. SQUEEZE JOB
 Double SIZE: TYPE: DEPTH:
 Single WEIGHT
 Swage GRADE TAIL PIPE: SIZE DEPTH:
 Knockoff THREAD TUBING VOLUME: Bbls
TOP OR NEW USED CASING VOL. BELOW TOOL: Bbls
BOT OR DEPTH TOTAL: Bbls
ANNUAL VOLUME: Bbls

JOB SCHEDULED FOR TIME: **05:30** DATE: **11-21-94** ARRIVE ON LOCATION TIME: **05:30** DATE: **11-21-94** LEFT LOCATION TIME: **10:30** DATE: **11-21-94**

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
07:30											
07:46		2000				H2O	9.3				
07:58			6	6			9.3				
07:58		160	37	43	5.8	CMT	11.5				
07:58		160			5.8	CMT	11.5				
07:58		220	39	82	5.8	CMT	14.8				
08:07		210	57	139	5.8	CMT	14.8				
08:07											
08:08											
08:13		60	71.6	210.6	6.1	H2O	9.34				
08:17		430	37	247.6	6.1	H2O	9.3				
08:21		250	50	297.6	5.5	H2O	8.3				
08:29		790	71.9	369.5	11.0	8.3					
08:48			71	440.5	11.5						
09:06			75	515.5	11.5						
09:26											

REMARKS:

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.		2.75	C + 2% D 29 + 2% D 46 + 1/2% D 29				3.5	11.5
2.		1.37	C + 2% D 29 + 2% S-1 + 1.6% D 46 + 2% D 46				5.7	14.8
3.		2.75	C + 2% D 29 + 2% D 46 + 1/2% D 29				7.5	11.5
4.								
5.								
6.								

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. CIRCULATION LOST: YES NO Cement Circulated To Surf.: YES NO
BREAKDOWN: PSI FINAL: PSI DISPLACEMENT VOL.: Bbls TYPE OF WELL: OIL GAS STORAGE INJECTION BRINE WATER WILDCAT
Washed Thru Perls: YES NO TO: FT. MEASURED DISPLACEMENT: WIRELINE
PERFORATIONS: TO: TO: CUSTOMER REPRESENTATIVE: DS SUPERVISOR: **R.A. P. [Signature]**

CEMENTING SERVICE REPORT

DS-496-A PRINTED IN U.S.A.

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 23-12-6650	DATE 11-17-94
STAGE 1	DS 03
DISTRICT 12*	

WELL NAME AND NO. Grace 1-4	LOCATION (LEGAL) SEC 10-345-38W
FIELD-POOL Huganton	FORMATION
COUNTY/PARISH STEVENS	STATE K6
API. NO.	
NAME MOBIL OIL CORP.	
AND	
ADDRESS	
ZIP CODE	

RIG NAME: Cheyenne #4	WELL DATA:		BOTTOM	TOP
BIT SIZE	CSG/Liner Size	9 5/8		
TOTAL DEPTH	WEIGHT	24		
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE	748		
MUD TYPE	GRADE	J-55		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD	810		
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	70.5		TOTAL
MUD VISC.	Disp. Capacity	45		

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

Float	TYPE	auto fill float	TYPE	
	DEPTH	705	DEPTH	
Shoe	TYPE	CMT. nose	TYPE	
	DEPTH	748	DEPTH	

SPECIAL INSTRUCTIONS
Follow cement & surface order. customer's orders, as follows.

Head & Plugs	<input type="checkbox"/> TBG	<input type="checkbox"/> D.P.	SQUEEZE JOB	
<input type="checkbox"/> Double	SIZE	TOOL	TYPE	
<input checked="" type="checkbox"/> Single	<input type="checkbox"/> WEIGHT		DEPTH	
<input type="checkbox"/> Swage	<input type="checkbox"/> GRADE	TAIL PIPE: SIZE DEPTH		
<input type="checkbox"/> Knockoff	<input type="checkbox"/> THREAD	TUBING VOLUME Bbls		
TOP <input type="checkbox"/> OR <input type="checkbox"/> CW	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL Bbls		
BOT <input type="checkbox"/> OR <input type="checkbox"/> OW	DEPTH	TOTAL Bbls		
ROTATE RPM RECIPROCATATE FT No. of Centralizers		ANNUAL VOLUME Bbls		

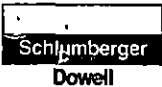
IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LIFT PRESSURE 290 PSI	CASING WEIGHT ÷ SURFACE AREA (3.14 x R ²)
PRESSURE LIMIT 1 PSI	BUMP PLUG TO 920 PSI	

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME:	DATE:	TIME:	DATE:	TIME:	DATE:	
0001 to 2400											
23:16		1200				H ₂ O					PRE-JOB SAFETY MEETING Yes
23:17		20	25		5.6	H ₂ O	8.3				PSI TEST
23:23		130	78		5.6	CMT	12.2				START H ₂ O
23:36		160		76	5.6	CMT	12.2				START LEAD
23:36		170	37		5.6	CMT	14.8				C-10 LOG
23:42		170		36.4	5.6	CMT	14.8				START TAIL
23:43		0	45		5.8	H ₂ O	8.3				End tail
23:48		140	24			H ₂ O	8.3				START DISP.
23:50		240	37			H ₂ O	8.3				Pres. chk.
23:56		920				H ₂ O	8.3				Bump Plug
00:06		0									End Job

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED		
			BBLs	DENSITY	BBLs	DENSITY	
1.	200	2.2	50% 4/100 + 6% 0-20 + 5% 044 (WOW) + 4% 029	76	13.2		
2.	175	1.2	50% 4/102 + 2% 5-1 + 0.75% 0-20 + 6% 029	36.4	14.9		
3.							
4.							
5.							
6.							

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.	MIN.
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input type="checkbox"/> NO	Cement Circulated To Surf.	<input type="checkbox"/> YES <input type="checkbox"/> NO 15 Bbls
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL. 45 Bbls	TYPE OF WELL
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT <input type="checkbox"/>	<input type="checkbox"/> WIRELINE	<input type="checkbox"/> OIL <input type="checkbox"/> GAS <input type="checkbox"/> STORAGE <input type="checkbox"/> INJECTION <input type="checkbox"/> BRINE WATER <input type="checkbox"/> WILDCAT
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS SUPERVISOR	
			BENTON GOWEN	Ret Pearson	



SERVICE ORDER

PERSON TAKING CALL: Greenville DATE/TIME: 11/20 1830 DS LOCATION: Ulysses KS TREATMENT NUMBER: 03-12-6658

DS-936-B CUSTOMER: MOBIL ORDERED BY: BERTON Cowan TELEPHONE: MOBILE

TYPE JOB: L3 JOB DATE: 11/21 TIME: ON LOC PUMP: BERTON Cowan CUSTOMER REP ON LOCATION: BERTON Cowan TELEPHONE: MOBILE

WELL NAME & NUMBER: GRAC 1-4 REWORK: (NEW) LOCATION: SEC 10-34S-38W POOL/FIELD: HUGOTON COUNTY/PARISH: STEVENS

CONTRACTOR ON SITE: _____ DS SALES REPRESENTATIVE: _____ CUSTOMER ORDER NUMBER: VERBAL STATE: KANSAS

TUBING/DP:	SIZE	DEPTH MD / TVD	WT	THREAD	TUBING/OP	TREATMENT VIA: CSG	ANN	TYPE	PACKER/RETAINER DEPTH
CASING:	<u>5 1/2</u>								
LINER:									
OPEN HOLE:									

PERFORATED INTERVALS								FORMATION:	
TOP	TO	BOTTOM	NO. OF HOLES	TOP	TO	BOTTOM	NO. OF HOLES		
	TO				TO			REQUIRED RATE/PRESS.	ORIGINAL
	TO				TO			<u>4-6 Bpm</u>	
	TO				TO			HYDRAULIC HORSEPOWER ORDERED:	
	TO				TO			<u>DC8</u>	
DIAMETER OF PERFORATIONS =								MAX PSI ALLOWABLE:	
WELLHEAD CONN: <u>5 1/2 4+ m & SWELDS</u>								<u>2500</u>	

SPECIAL INSTRUCTIONS/EQUIPMENT: TAKE WOT & dry samples of BOTH Lead & Tail

SYSTEM DESCRIPTION:

System 1 220 SKS Class C + 3% D79 + .2% D46 + 1/4" SK D29

System 2 220 SKS Class C + 2% B28 + 2% S1 + .6% D60 + .2% D46

System 3 _____

System 4 _____

Additional Materials: _____

RECEIVED
STATE CORPORATION COMMISSION

FEB 23 1995

CONSERVATION DIVISION
WICHITA, KANSAS

Directions: HUGOTON - EVANS CORNER (WEST SIDE TOWN) 4 MI WEST - 5 MI SOUTH WEST INTO

RECEIVED
STATE CORPORATION COMMISSION

FEB 23 1995

CONSERVATION DIVISION
WICHITA, KANSAS

