

Operator Name **HELLAR DRILLING COMPANY, INC.**

Lease Name **USA**

Well # **#1**

Sec. **5** Twp. **16S** Rge. **27**

East

County **LANE**

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	3772	-1238
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lansing	3811	-1277
List All E.Logs Run:		Stark	4060	-1526
		Fort Scott	4309	-1775
		Mississippi	4412	-1878
R A Guard Log				
Sonic Cement Bond Log				

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"	24#	268.71'	60-40posmix	205	2% gel 3% cc
PRODUCTION	7-7/8"	4-1/2"	10.5#	4440'	EA-2	170	
DV Tool				1256'	HCL	300	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing	4327-33			A 250 15% MCA; RCA 1500 15% FE
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone	4311-15			A 260 15% MCA; RCA 2500 15% SGA

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth

TUBING RECORD	Size 2 3/8"	Set At 4365'	Packer At --	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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)			
May 27, 1994				
Estimated Production Per 24 Hours	Oil 33.4 Bbls.	Gas -0- Mcf	Water -0- Bbls.	Gas-Oil Ratio 40°

Disposition of Gas:	<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	METHOD OF COMPLETION	Production Interval
		<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled	4311-15'
		<input type="checkbox"/> Other (Specify)	4327-33'

ORIGINAL

USA #1
Hellar Drilling Company, Inc.
ACO-1

API#15-101-21671-00-00

Drill Stem Test Information:

DST #1 3968-4000

30-45-60-45

Weak blow throughout. Recovered 90' of fluid - 30' slightly oil cut mud (12% oil, 88% mud) and 60' water cut mud (32% water, 68% mud)

FP's 41-41 & 52-62
BHP's 1153 & 1101

KCC

JUN 23

DST #2 4094-4109

CONFIDENTIAL

30-45-60-45

Strong blow throughout. Recovered 800' of fluid - 675' gasy oil (42%), 125' ho & gas cut mud (@1% oil, 45% gas, 32% mud, 2% water)

FP's 72-93 & 187-291
BHP's 1215 & 1184

RELEASED

DST #2 4309-30

JUL 26 1995

30-45-60-60

Weak blow initially, build to strong at end of test. Recovered 2500' gas in pipe, 25' clean oil, 40' muddy oil - 5% gas, 70% oil, 25% mud.

FP'S 31-31 & 41-41
BHP'S 447 & 437

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COM

JUN 24 1995

CONSERVATION DIVISION
Wichita, Kansas

15-101-21671-00-00

3-483-2627, Russell, KS

Phone 913-625-5516, Hays, KS

Phone 316-886-5926, Medicine Lodge, KS

Phone 316-793-5861, Great Bend, KS

Phone 913-672-3471, Oakley, KS

Phone 913-798-3843, Ness City, KS

USA

ALLIED CEMENTING CO., INC.

6119

Home Office P. O. Box 31

Russell, Kansas 67665

ORIGINAL

New

Date 4/17/94	Sec. 5	Twp. 16S	Range 27W	4-16 Called Out 9 PM	4-16 On Location 00:30	Job Start 3:45	Finish 4:00 AM
Lease USA	Well No. I	Location Pendennis 3N Winto			County Lane	State KS	

Contractor Abernethy 8	Owner Sane
Type Job Surface	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 12 1/4	T.D. 273
Csg. 8 3/8" 24"	Depth 269
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Depth JUN 23
Cement Left in Csg.	Shoe Joint CONFIDENTIAL
Press Max.	Minimum
Meas Line	Displace 14.3161
Perf.	

Charge To Hellaer Dalg Inc.
Street 125 N. Market Suite 1422
City Wichita State Ko. 67202
The above was done to satisfaction and supervision of owner agent or contractor.
Purchase Order No.
X Anthony Mard
CEMENT

EQUIPMENT

No.	Cementer	Helper	Driver
Pumptrk 224	Gary	Mike	
Pumptrk			
Bulktrk 116			Rick W
Bulktrk			

Amount Ordered 205 6% 2% Gel 3% CC
Consisting of
Common 123 5.75 707.25
Poz. Mix 82 3.00 246.00
Gel. 4 9.00 36.00
Chloride 6 25.00 150.00
Quickset

DEPTH of Job

Reference: Pump Truck	430.00
40 Mileage	90.00
8 5/8" TRP	83.00
Sub-Total	
Tax	
Total	603.00

Handling 205 JUL 26 1995	1.00	205.00
Mileage 40 FROM CONFIDENTIAL		328.00
Total		533.00
Sub-Total		
Total		1672.25

Total \$ 2787.25
Disc - 557.45
\$ 2229.80

Remarks: Cement

Thank you
Stan A. Howard

RELEASED

Floating Equipment	
Guide Shoe (Bill Nuss) -	224.00
Raffle -	105.00
3 Baker Centralizers -	183.00
Total	\$ 512.00

RECEIVED JUN 24 1994 CONSERVATION D



HALLIBURTON

HALLIBURTON ENERGY SERVICES

FORM 1906 R-13

CHARGE TO: *Heller Drilling 15-101-21671-00-00*

ADDRESS:

CITY, STATE, ZIP CODE:

COPY

RELEASED

FROM CONFIDENTIAL

JUN 2 1995

TICKET # *9920*

REC'D ON ADMINISTRATION

PAGE 2 OF 8

CONSERVATION DIVISION, Kansas

Wichita

SERVICE LOCATIONS 1. <i>Ness Cr. 25525</i>	WELL/PROJECT NO. <i>#1</i>	LEASE <i>U.S.A.</i>	COUNTY/PARISH <i>Lane</i>	STATE <i>Ks.</i>	CITY/OFFSHORE LOCATION <i>1111 2</i>	DATE <i>4-24-94</i>	OWNER <i>SGme</i>
2. <i>Hwy 2 25525</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <i>Abercrombie Drilling</i>	RIG NAME/NO.	SHIPPED VIA <i>Location</i>	DELIVERED TO	ORDER NO.
3.	WELL TYPE <i>01</i>	WELL CATEGORY <i>01</i>	JOB PURPOSE <i>035</i>	WELL PERMIT NO.	WELL LOCATION <i>Sec. 5, T.16S, R.27W</i>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M			
000-117		2			MILEAGE TRK#	96	mi	2	75	264
007-018	001-016	2			Pump Service	4460	FT	1545	00	1545
007-161		2			Additional Stage	1256	FT	1295	00	1295
26	847.6316	2			Insert Valve Float Shoe	1	pc	285	00	285
27	815.1911	2			Auto. Fillup Assy.	1	pc	45	00	45
40	807.93004	2			S-4 Centralizers	10	pc	43	00	430
320	800.8581	1			Cmb. Basket	2	pc	105	00	210
71	813.56125	1			Multiple Stage Cmb. Type P	1	pc	2085	00	2085
75	813.16410	1			Free Fall Plug Set	1	pc	450	00	450
56	807.2003	1			Ric. processing Well Cleaners Cable Type	12	pc	25	50	306
018-317		1			Super Flush	10	pc	100	00	1000
66	807.64071	1			Fast Grip Clamp	2	pc	11	00	22

KCC

JUL 2 1994

CONFIDENTIAL ORIGINAL

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: *Ronald A. Schraeder*

DATE SIGNED: _____ TIME SIGNED: _____

do do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	<input checked="" type="checkbox"/> SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			FROM CONTINUATION PAGE(S) <i>5878</i>
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?			
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
TUBING SIZE	TUBING PRESSURE	WELL DEPTH			
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO			SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <i>KONALD S. SCHRAEDER</i>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>Ronald A. Schraeder</i>	HALLIBURTON OPERATOR/ENGINEER <i>Roger B. Feghli</i>	EMP # <i>10719</i>	HALLIBURTON APPROVAL
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CUSTOMER <i>Heller D. G.</i>	WELL NO. <i>#1</i>	LEASE <i>USA</i>	JOB TYPE <i>Long String</i>	TICKET NO. <i>599200</i>
---------------------------------	-----------------------	---------------------	--------------------------------	-----------------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1530							Called out
	1930							on loc. by laying down Drill pipe Start 4 1/2" csg. intake
								KCC Insert Flow sha and Baffle on #1
								JUN 23 run on "2, "4, "7, "9, "16, "16, "19, "31, "14, "102 D.U. tool on "178 @ 1756'
								CONFIDENTIAL Backed on "2, "78
	2125							Carry on Bottom Drop Ball
	2135							Break circulation Reciprocate csg.
	2206		2					Pump 2" 1120 speck
	2208	5	10					Pump 10" Super Flo 4
	2213		2					Pump 2" 1120 speck
	2215		42					Mix 170sk LA 2 out
	2222							Finished mixing wash pump & h/c Release 1" Plug
	2225							Dis. 45" 1120, 35" mud
	2240	6	170				1,000	Plug down 1,000 psi holding Release Press. Most hold
	2245	2						Drop D.U. opening Plug
	2300						600	Open D.U. tool Pst pump 10" mud
	2305							Mix 300sk H/C w/ 1/4" Floate Plug Red hole
			101					Finished mixing
	2325							Release Plug and Ann. 20" 1120
	2330						1,400	Plugdown circulated 5" cut to pit D.U. closed @ 1400psi
								Release pass. Packed up D.U. closed Wash & back up track Job Complete

ORIGINAL

RELEASED
JUL 26 1995

FROM CONFIDENTIAL

Thank You
Ray

HALLIBURTON JOB SUMMARY

HALLIBURTON DIVISION *Alco Contract Regs* 15-101-21671-00-00
 HALLIBURTON LOCATION *Waco, Tex* BILLED ON TICKET NO. 599200

PHONE (316) 783-5878

WELL DATA: *Waco, KS 87530*

FIELD *Four Business is Appreciated* SEC. *5* TWP. *16S* RNG. *21* COUNTY *Lea* STATE *K.*

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH *4460*

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<i>N</i>	<i>10.5</i>	<i>4 1/2</i>	<i>KB</i>		
LINER						
TUBING						
OPEN HOLE						
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

TOOLS AND ACCESSORIES

JOB DATA

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <i>Insert</i>	<i>1</i>	<i>Hobas</i>
GUIDE SHOE		
CENTRALIZERS <i>S-4</i>	<i>11</i>	<i>KGC</i>
BOTTOM PLUG		
TOP PLUG <i>D.V. Plug Set</i>	<i>1</i>	<i>JUN 23</i>
HEAD		
PACKER <i>Cont. Basket</i>	<i>2</i>	<i>CONFIDENTIAL</i>
OTHER <i>Revolving Seals</i>	<i>12</i>	

DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
<i>4-24-94</i>	<i>1530</i>	<i>4-24-94</i>	<i>1620</i>	<i>4-24-94</i>	<i>1730</i>		

NAME	UNIT NO. & TYPE	LOCATION
<i>D. Loggins - 80719</i>	<i>40072</i>	<i>Waco, KS</i>
<i>R. Brown - 57220</i>	<i>51374</i>	<i>Waco, KS</i>
<i>M. Rosta</i>	<i>3860</i>	<i>Waco, KS</i>
	<i>711</i>	
	<i>51752</i>	
	<i>1511</i>	

MATERIALS

TREAT. FLUID	DENSITY	LB/GAL. API
DISPL. FLUID	DENSITY	LB/GAL. API
PROP. TYPE	SIZE	LB
PROP. TYPE	SIZE	LB
ACID TYPE	GAL.	%
ACID TYPE	GAL.	%
ACID TYPE	GAL.	%
SURFACTANT TYPE	GAL.	IN
NE AGENT TYPE	GAL.	IN
FLUID LOSS ADD. TYPE	GAL.-LB.	IN
GELLING AGENT TYPE	GAL.-LB.	IN
FRIC. RED. AGENT TYPE	GAL.-LB.	IN
BREAKER TYPE	GAL.-LB.	IN
BLOCKING AGENT TYPE	GAL.-LB.	IN
PERFAC BALLS TYPE	QTY.	
OTHER		

DEPARTMENT *C-4*
 DESCRIPTION OF JOB *C-4 4 1/2 Production Csg 2 Stags*
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE *X Ronald A Schwade*
 HALLIBURTON OPERATOR *Ry D. Felt* COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT BRAND	BULK SACKED	ADDITIVES	YIELD CU. FT./SK.	MIXED LBS./GAL.
<i>1</i>	<i>110</i>	<i>Standard</i>	<i>B</i>	<i>5% Calcal, 10% salt, 1/4" D.W.A., 1/8" 16.6hd 322</i>	<i>1.36</i>	<i>15.8</i>
<i>2</i>	<i>300</i>	<i>HIC</i>	<i>B</i>	<i>1/4" Flocc</i>	<i>1.9</i>	<i>22.5</i>

PRESSURES IN PSI _____ SUMMARY _____ VOLUMES _____

CIRCULATING _____ DISPLACEMENT _____ PRES. LUSH (BBL) GAL. *20* TYPE *SX-1*
 BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. _____
 SHUT-IN: INSTANT _____ 15-MIN. _____ 15-MIN. _____ CEMENT SLURRY (BBL) GAL. *1927*
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____
 GRAN AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET _____ REASON *Shoe Joint*

REMARKS:
Received 5:00 PM 4/25/94
See Chart and Job Log
Thank you Regs

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

6-23-95 6-25-94

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other JUN 14 11 12 Hill

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEPEN PLUG BACK DIFF. RENVR. Other

2. NAME OF OPERATOR
Hellar Drilling Company, Inc.

3. ADDRESS AND TELEPHONE NO. (316) 267-2845
125 N. Market, Suite 1422 Wichita, Kansas 67202

4. LOCATION OF WELL (Report location clearly and in accordance with any applicable regulations)
At surface NE SW SW
At top prod. interval reported below NE SW SW
At total depth NE SW SW

5. LEASE DESIGNATION AND SERIAL NO.
KSW-5607

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME, WELL NO.
USA #1

9. API WELL NO.
15-101-21,671

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
5-16S-27W

14. PERMIT NO. DATE ISSUED
15-101-21,671-22/94
CONSERVATION DIVISION
SEP 20 1994

15. DATE SPUNDED 4/16/94 **16. DATE T.D. REACHED** 4/24/94 **17. DATE COMPL. (Ready-to-prod.)** 5/21/94 **18. ELEVATIONS (DF, RKB, RT, OR, ETC.)*** Grd-2529' KB-2534' **19. ELEV. CASINGHEAD** 2526'

20. TOTAL DEPTH, MD & TVD 4460' **21. PLUG, BACK T.D., MD & TVD** 4395' **22. IF MULTIPLE COMPL., HOW MANY*** ----- **23. INTERVALS DRILLED BY** 0-4460' **ROTARY TOOLS** ----- **CABLE TOOLS** -----

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
4311-4315' & 4327-4333' ; Fort Scott

25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN
RA Guard Log, Sonic Cement Bond Log

27. WAS WELL CORED No

29. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	268.71	12 1/2"	205 sacks 60-40 Posmix 2%g 3%cc	
4 1/2"	10.5#	4440'	7 7/8"	170 sacks EA-2	

29. LINER RECORD NONE

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	4365'	None

31. PERFORATION RECORD (Interval, size and number)

4327-33' - 3/8" - 10 Holes
4311-15' - 3/8" - 10 Holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4327-4333'	A250 15% MCA; RCA 1500 15% FE
4311-4315'	A250 15% MCA; RCA 2500 15% SG

33. PRODUCTION

DATE FIRST PRODUCTION 5/27/94 **PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)** Pump - 2" x 1 1/2" x 12' RWTC **WELL STATUS (Producing or shut-in)** Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6/8/94	24	N/A	→	33.4	-0-	-0-	N/A

FLOW. TUBING PRESS.	CASINO PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
-0-	10#	→	33.4	-0-	-0-	40°

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) fuel **TEST WITNESSED BY** Steve Durrant

35. LIST OF ATTACHMENTS
Completion Report (4 Pages), electric log, DST's, pressure test

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED D. A. Hellar TITLE President DATE June 10, 1994

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Kansas Corporation Commission

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Lansing 220 Zone	4102	4109	foss. lm, w/gd. p.p. - vug por. F.S.F.O. & scatt lt stn gd odor	Anhydrite	1920	
Fort Scott	4311	4315	ool ls w/fr ool por. sh live oil w/ occas. brn sat.	Lansing	3811	
				Fort Scott	4308	
				Mississippi	4412	
Fort Scott	4327	4333	Dns ls few pcs w/pr P.P. - vug por sh live oil and scatt brn sat.			