

ORIGINAL

CONFIDENTIAL SIDE ONE

CONFIDENTIAL

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

API NO. 15- 033-20,776 FROM CONFIDENTIAL

County Comanche
100' E of East
E/2 SW SW Sec. 36 Twp. 32 Rge. 19 X West

Operator: License # 3667

660 Ft. North from Southeast Corner of Section

Name: SOURCE PETROLEUM

4190 Ft. West from Southeast Corner of Section

Address 200 W. Douglas #820

(NOTE: Locate well in section plat below.)

Wichita, KS 67202

Lease Name COLTER "A" Well # 1

City/State/Zip _____

Field Name Wildcat COLTER

Purchaser: Koch

Producing Formation Arbuckle

Operator Contact Person: John D. Howard, JR

Elevation: Ground 2047 KB 2052

Phone (316) 262-7397

Total Depth 6095 PBTD 6095

Contractor: Name: ALLEN DRILLING COMPANY

License: 5418

Wellsite Geologist: Randall M. Lilak

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abs.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OWO: old well info as follows:

Operator: N/A

Well Name: _____

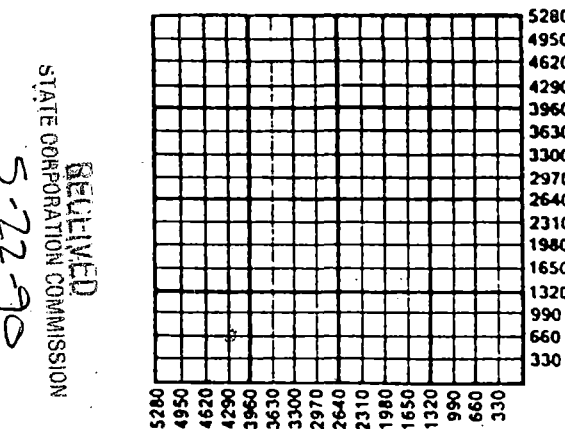
Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

1/26/90 2/16/90 3/10/90

Spud Date Date Reached TD Completion Date



Amount of Surface Pipe Set and Cemented at 635' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set N/A Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 John D. Howard, Jr.

Title General Manager Date 5/18/90

Subscribed and sworn to before me this 18th day of May

19 90

Notary Public Virginia S. Fabian

Date Commission Expires August 5, 1991

Virginia S. Fabian

August 5, 1991

August 5, 1991

August 5, 1991

NPDA 9909

K.C.C. OFFICE USE ONLY

Letter of Confidentiality Attached

Wireline Log Received

Drillers Timelog Received

Distribution

KCC SWD/Rep NGPA

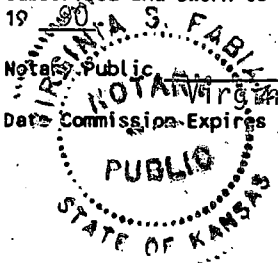
KGS Plug Other

(Specify)

Form ACO-1 (7-89)

ORIGINAL

PI



SIDE TWO

Operator Name SOURCE PETROLEUM Lease Name COLTER "A" Well # 1
 Sec. 36 Twp. 32 Rge. 19 County Comanche
 East 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. **RELEASED**

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.)

Formation Description **MAY 2 8 1991**

Log Sample **FROM CONFIDENTIAL**

Name	Top	Bottom
Anhydrite	1022	1038
Lansing KC	4471	4933
Cherokee	5099	5177
Mississippian	5177	5806
Viola	5806	5396
Simpson	5936	6040
Arbuckle	6040	6096 LTD

CASING RECORD New 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#	635'	lite	260	
					60/40poz	100	
					std.	75	
production	7-7/8"	5-1/2"	15#	6085'	Thix	200	5#/sk Gilsonite

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
open hole	6085-6096	500 gls 15% MCA	

TUBING RECORD Size 2 7/8 Set At 6070' Packer At N/A Liner Run Yes No

Date of First Production 3/10/90 Producing Method Flowing Pumping Gas Lift Other (Explain)

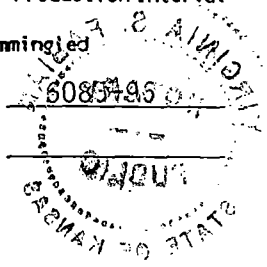
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	104	44	45	423	49

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

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval 6085-495



COLTER "A" #1
Appx 100'E E/2 SW SW
36-32S- 19W
Comanche County, Kansas

CONFIDENTIAL

RELEASED

MAY 2 8 1991

Drill Stem Tests

FROM CONFIDENTIAL

DST #1 5183-5310' - Misrun
Mississippian.
15-15 15-15
1st open: Weak blow died in 7 min.
2nd open: Tool slid 4-5'. Partial
PKR failure. Lifted tool to shut-in,
set back down. Weak blow died imme-
diately.
Rec: 60' mud (during PKR failure)
No pressures
Charts indicating plugging

DST #2 5187-5310'
Mississippian
30-60 60-60
1st open: Weak blow building off bottom
of bucket in 1 min., GTS in 20 min., not
enough to gauge, est less than 50 MCFD
2nd open: Blow off bottom of bucket imme-
diately, gauge 50.2 MCF in 10 min, 47.1 MCF
in 20 min, stabilized
REC: 90' drlg mud
IHP: 2701 FHP: 2701
IFP: 98-108 FFP: 118-128
ISIP: 1806 FSIP: 1679
BHT 119°

DST #3 5797-5884'
Viola
30-60 90-60
1st open: Weak building to
strong blow thru S.I. w/GTS
2nd open: cont strong blow
22.9 MCF in 10 min building to
42.4 MCF in 80 min & stabilized
in 90 min
Rec: 80' GCM
IHP: 3025 FHP: 3025
IFP: 98-79 FFP: 98-118
ISIP: 779 FSIP: 2120
BHT 129°

DST #4 5939-5980'
Simpson
30-30 30-30
1st open: weak blow building to 3½"
2nd open: weak blow building to 3½"
Rec: 150' WCM, 180' W
IHP: 3056 FHP: 3056
IFP: 79-118 FFP: 138-187
ISIP: 2120 FSIP: 2120
BHT 137°

DST #5 6043-6065'
Arbuckle
30-60 20-60
1st open: GTS in 8 min., OTS during
1st shut-in
2nd open: Oil and gas flowing in
10 min., building and spraying in
20 min. S.I. waited until daylight
to pull test
Rec: 30bbls oil in tank truck 45° gr
IHP: 3056 FHP: 3056
IFP: 385-916 FFP: 946-1244
ISIP: 2189 FSIP: 2189
BHT 96° ?

DST #6 6087-6095' - Misrun
Arbuckle
15-15
1st open: Very weak blow for 10 min.
2nd open: No blow
Rec: 30' mud
Plugged tool - pressures not valid
BHT 136°

RECEIVED
STATE COMMISSION
MAY 22 1990
CONSERVATION DIVISION
Wichita, Kansas

BJ-TITAN SERVICE

P.O. BOX 4442 HOUSTON, TX 77210

ORIGINAL

RECEIVED FEB 21 1990
CEMENTING LOG
CONFIDENTIAL

well file

Date 2-1-90 District MED. LODGE Ticket No. SS1650
 Company SUNKLE PETROLEUM Rig ALLEN #5
 Lease COLTER Well No. 1
 County COMANCHE State KANSAS
 Location 36-32S-19W Field WELDLAT
COLUMBIAN AIRPORT 1W 34S 9S

CASING DATA: PTA Squeeze
 Surface Intermediate Production
 Size 5 1/2" Type M-50 Weight 15.5# Collar 670

CEMENT DATA:
 Spacer Type: 500 GALS. REGULAR MUD SWEEP
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____

LEAD: Pump Time _____ hrs. Type 60:40:2, 10% OAS
74 OF 1% O.D. 31, IP-3, 5# KOL-SEAL Excess _____
 Amt. 100 Sks Yield 1.37 ft³/sk Density 14.2 PPG
 TAIL: Pump Time _____ hrs. Type SURE FILL
5# KOL-SEAL Excess _____
 Amt. 100 Sks Yield 1.44 ft³/sk Density 14.7 PPG
 WATER: Lead 5.39 gals/sk Tail 6.32 gals/sk Total 29 Bbls

Casing Depths: Top _____ Bottom _____
378" - 61 - 635

Pump Trucks Used 2901-6480 BOB C
 Bulk Equip. 2903-6483 JOHN K

Drill Pipe: Size 4 1/2" Weight 16.6# Collars XH
 Open Hole: Size 7 7/8" T.D. 6095 ft. P.B. to _____ ft.
 CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. 42.0
 Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.59
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. .0309 Lin. ft./Bbl. 32.4
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer BAKER - ARROW
 Shoe: Type PACKER Depth 6085
 Float: Type AFU COLLAR Depth 6065
 Centralizers: Quantity 12 Plugs Top RUBBER Btm. _____
 Stage Collars _____
 Special Equip. 1 STOP KING, 2 BASKETS, 30 SCRATCHERS
 Disp. Fluid Type FRESH H₂O Amt. 150 Bbls. Weight 8.34 PPG
 Mud Type CHEMICAL Weight 9.3 PPG

COMPANY REPRESENTATIVE CHUCK SCHMIDT

CEMENTER KURT BRUNGARDT

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls. Min.	
4:30						ON LOCATION, RIG UP
						JOB + SAFETY PROCEDURE
						RUN 5 1/2" CASING - TAG BOTTOM
						BREAK CIRCULATION - ROTATE CASING
						WHILE CIRCULATING
						SET PACKER SHOE WITH RIG PUMP
						DROP BALL FOR FLOAT COLLAR + CIRC.
						HOOK UP TO CEMENT PUMP
						START MUD SWEEP
	400				5	MUD SWEEP IN - START 60:40:2
	500		12	12	6	60:40:2 IN - START TAIL
	750		36 1/2	24 1/2	6	TAIL IN - STOP PUMPS
	500		52	25 1/2	6	CHANGE VALVES - FLUSH PUMPS + LINES
	0				2	CHANGE VALVES - RELEASE TLLG
	200		54	2	6	START DISPLACEMENT
	400		72	18	6	INCREASE RATE
	450		142	70	6	PRESSURE INCREASE
	500		154	12	6	MUD SWEEP TURNS SHOE
	700		178 1/2	24 1/2	6	60:40:2 " "
	1100				6	SURE FILL " "
	800		182	13 1/2	3	GRADUAL PRESSURE INCREASE
2:45	1500		192	10		SLOW RATE
						BUMP PLUG
						FLOAT HOLDS!

FINAL DISP. PRESS: 1000 PSI, BUMP PLUG TO 1500 PSI BLEEDBACK 1 BBLs. **THANK YOU**

Form No. SR 0502 (Rev. 7/85)

DISTRICT Wichita DATE 5/27/90

TO: **HALLIBURTON SERVICES** YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE **RELEASED**

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Samuel P. ... (CUSTOMER)

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE COTLER A SEC. _____ TWP. _____ RANGE _____

FIELD _____ COUNTY COMANCHE STATE KS OWNED BY _____

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

PACKER: TYPE _____ SET _____

TOTAL DEPTH 639' MUD WEIGHT _____

BORE HOLE 12 1/4"

INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF _____

PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	USED	24"	8 3/8"	KO	639	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____

Cement 8 3/8" Surface Casing with 260 SLS of L...
376 CC Followed by 100 SLS of 40% Poz - 60% Cement Casing
376 CC

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED.

a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.

b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:

1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release, and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.

c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.

d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.

f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.

g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.

h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

MAY 27 1990

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

CONSERVATION DIVISION
Wichita, Kansas

SIGNED _____ CUSTOMER

DATE JUN 26 1990

TIME _____ A.M. P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

HALLIBURTON SERVICES
JOB LOG

WELL NO. #1 LEASE COTER "A" TICKET NO. 851521
 CUSTOMER SOURCE Petroleum PAGE NO. _____
 JOB TYPE 8 5/8" SURFACE DATE 1-27-90

FORM 2013 R-2

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1830							Calles out - Ready @ 2300
	2300							ON LOC - REG DRILLING - SET UP
	2400							WELL MADE - CIRCULATE START OUT OF HOLE w/ DP
	0030							DP OUT OF HOLE - REG UP TO RUN CASING - BULK TRK ON LOC
	0045							START CASING IN HOLE
	0125							CG IN HOLE - HOPE UP & BREAK Circ w/ REG PUMP - WELL CIRCULATES - NOT FULL Returns
	0144	7.25	93.9	✓	✓		250	Mex Cnt
	0157			✓				FINISH MENDING - Release Pulo
	0158	5.5	38	✓	✓		150	DISPLACE PULG
	0205			✓			250	PULO DOWN - CLOSE IN HEAD - RETURNS STOPPED FOR SHORT TIME WHEN PULO RELEASED - NO CNT TO SURFACE - ORDER ONE EACH CEMENT - BULK TRK RELEASED
	0545							BULK TRK ON LOC - RUN ONE EACH TO 40' - BUCKET @ 210'
	0700	1.0	15.75	✓	✓	50		MEX CNT - (STD w/ 370 GR)
	0715							FINISH MENDING - CEMENT (155K) CIRCULATES TO CLEAR - WASH UP
	0800							JOB COMPLETE - BULK TRK RELEASED

STATE OF KANSAS RECEIVED
 CONSERVATION DIVISION
 WICHITA, KANSAS
 MAY 22 1990

RELEASED

MAY 28 1991

THANKS
- R.B.

FROM CONFIDENTIAL

CUSTOMER



HALLIBURTON SERVICES

Duncan, Oklahoma 73538

A Division of Halliburton Company

TICKET

NO. 851521-0

ORIGINAL

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME #1 COLTER "A"		COUNTY COMANCHE	STATE KS	CITY / OFFSHORE LOCATION	DATE 1-27-90
CHARGE TO SOURCE REVENUE		OWNER SAME	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR ALLEN DRUG	LOCATION 1 PRATT, KS 50355	CODE	
CITY, STATE, ZIP		SHIPPED VIA 50120	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT	LOCATION 2 HOT SPRING, KS 50370	CODE
WELL TYPE 01-OIL	WELL CATEGORY 01-DEVELOPMENT	WELL PERMIT NO. B-879237438	DELIVERED TO LOCATION	LOCATION 3	CODE
TYPE AND PURPOSE OF JOB DIO - 8 5/4" SURFACE		ORDER NO.	REFERRAL LOCATION		

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117		1		MILEAGE	50	ME			220	110.00
001-016		1		PUMP CHARGE	638	FT			35.20	530.20
030-503		1		TOP RULO	1	EA	8 7/8 IN		59.00	59.00
320	800-5538	1		BARRET	1	EA	8 7/8 IN		122.00	122.00
547	825-1269	1		BARRECE PLATE	1	EA	8 7/8 IN		39.00	39.00

RELEASED

MAY 28 1990

FROM CONFIDENTIAL

THIS IS NOT AN INVOICE

MAY 22 1990
CONSERVATION DIVISION
WICHITA, KANSAS

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B- 879237

2696.32

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X _____
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X _____
CUSTOMER OR HIS AGENT (SIGNATURE)

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

[Signature]
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

CUSTOMER

SUB TOTAL

APPLICABLE TAXES WILL BE ADDED ON INVOICE



JOB SUMMARY

HALLIBURTON DIVISION

WICHITA

HALLIBURTON LOCATION

Pawnee, KS

BILLED ON TICKET NO. 851521

ORIGINAL**WELL DATA**

FIELD _____ SEC. _____ TWP. _____ RING _____ COUNTY COMANCHE STATE KS

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 634'

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	(150)	24"	8.38"	K13	638'	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES			
TYPE AND SIZE	QTY.	MAKE	
FLOAT VALVE <u>BARREL</u>	<u>1</u>	<u>4 5/8"</u>	<u>HOUWCO</u>
FLOAT SHOE <u>PLATE</u>			
GUIDE SHOE			
CENTRALIZERS			
BOTTOM PLUG			
TOP PLUG <u>LH-10</u>	<u>1</u>	<u>"</u>	<u>"</u>
HEAD <u>PC</u>	<u>1</u>	<u>"</u>	<u>"</u>
PACKER			
OTHER <u>BASKET</u>	<u>1</u>	<u>"</u>	<u>"</u>

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>1-26-90</u>	DATE <u>1-27</u>	DATE <u>1-27</u>	DATE <u>1-27</u>
TIME <u>1830</u>	TIME <u>2300</u>	TIME <u>0125</u>	TIME <u>0800</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. RENO</u>	<u>P16633</u>	<u>50120 PRATT, KS</u>
<u>D. FOGLE</u>	<u>C1690</u>	<u>50-PTNR 1540-521 G. PAW, KS</u>
<u>D. DORRIZ</u>	<u>P0022</u>	<u>BULK</u>
<u>D. RENO</u>	<u>B3820</u>	<u>BULK</u>

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.

PERFFAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

RELEASED

MAY 2 8 1991

FROM CONFIDENTIAL

CONFIDENTIAL DIVISION
Wichita, Kansas

DEPARTMENT CEMENT

DESCRIPTION OF JOB 4 5/8" SURFACE

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X W. H. [Signature]

HALLIBURTON OPERATOR [Signature] COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>260</u>	<u>LITE</u>	<u>HOUWCO</u>	<u>BULK</u>	<u>370 CC</u>	<u>1.54</u>	<u>13.6</u>
	<u>100</u>	<u>40/100 P02</u>	<u>"</u>	<u>"</u>	<u>370 CC</u>	<u>1.27</u>	<u>14.31</u>

PRESSURES IN PSI**SUMMARY****VOLUMES**

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL-GAL _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISPL: BBL-GAL 38

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL-GAL 71.3 + 22.6 = 93.9

ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME: BBL-GAL _____

AVERAGE RATES IN BPM _____ REMARKS See JOB LOG

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 42 REASON BY REQUEST

THANKS - RENO

CUSTOMER: [Signature]

LEASE: [Signature]

WELL NO. #1

JOB TYPE: 851521

DATE: 1-27-90

BULK MATERIALS DELIVERY AND TICKET CONTINUATION



FOR INVOICE AND TICKET NO. 851521

DATE 1-26-90	CUSTOMER ORDER NO.	WELL NO. AND FARM Colter A-1	COUNTY Comanche	STATE Ks.
CHARGE TO Source Petroleum		OWNER Source Petro.	CONTRACTOR Allen Drlg. No. B879237	
MAILING ADDRESS		DELIVERED FROM Great Bend, Ks.	LOCATION CODE 50320	PREPARED BY S. C. Henry
CITY & STATE		DELIVERED TO Location	TRUCK NO. 1540-5621	RECEIVED BY Reno 0030

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-316		2	B	Halliburton Light Cement 100 40% Pozmix/60% Cement	260	sk			4.82	1253.	20
504-308	516.00261	2	B	Standard Cement	60	sk			5.35	321.00	
506-105	516.00286	2	B	Pozmix A	40	sk			2.79	111.60	
506-121	516.00259	2	B	2 Halliburton Gel 2% allowed							NC
509-406	890.50812	2	B	Calcium Chloride 3%W/360	10	sk			26.25	262.	50

THIS IS NOT AN INVOICE

RELEASED
MAY 28 1991
FROM CONFIDENTIAL

MAY 22 1990
STATE COURT
CONSTITUTION
Wichita, Kansas

500-306	Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES	.70
500-225	SERVICE CHARGE ON MATERIALS RETURNED			CU. FEET	32
500-207	2 B	SERVICE CHARGE	CU. FEET 380	.95	361.00
500-306	2 B	Mileage Charge	33,544 TOTAL WEIGHT	50 LOADED MILES	838.60 TON MILES
				.70	587.02
No. B 879237				CARRY FORWARD TO INVOICE	SUB-TOTAL
					2696.32

CUSTOMER



HALLIBURTON SERVICES
Duncan, Oklahoma 73506

A Division of Halliburton Company

BULK MATERIALS DELIVERY AND ORIGINAL TICKET CONTINUATION

FOR INVOICE AND
TICKET NO. **851521**

DATE 1-27-90	CUSTOMER ORDER NO.	WELL NO. AND FARM Colter A-1	COUNTY Comanche	STATE Ks.
CHARGE TO Source Petroleum	OWNER Same	CONTRACTOR Allen Drlg.		No. B 879238
MAILING ADDRESS	DELIVERED FROM Great Bend, Ks.	LOCATION CODE 50320	PREPARED BY D. L. Ramsey	
CITY & STATE	DELIVERED TO Location	TRUCK NO. 4604-8206	RECEIVED BY REIG 0545	

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT		
		L	D		QTY.	MEAS.	QTY.	MEAS.				
504-308	516.00261	2	B	Standard Cement	75 450	sk			5.35	401.25 802.50		
509-406	890.50812	2	B	Calcium Chloride Blended ^{3/4} 175	2	sk			26.25	52.50		
509-406	890.50812	2	B	Calcium Chloride Not Blended	2	sk			26.25	52.50		
<p>THIS IS NOT AN INVOICE</p> <p>RELEASED MAY 2 8 1991 FROM CONFIDENTIAL</p> <p>MAY 22 1990 CONFIDENTIAL D. L. Ramsey</p>												
500-306				Returned Mileage Charge	7210	TOTAL WEIGHT	50	LOADED MILES	180.25	TON MILES	.70	126.18
500-225				SERVICE CHARGE ON MATERIALS RETURNED					CU. FEET 79		.32	25.28
500-207		2	B	SERVICE CHARGE					CU. FEET 158		.95	150.10
500-306		2	B	Mileage Charge	14420	TOTAL WEIGHT	50	LOADED MILES	360.50	TON MILES	.70	252.35
No. B 879238							CARRY FORWARD TO INVOICE			SUB-TOTAL	1007.66 1309.95	

ALLEN DRILLING COMPANY ORIGINAL DAILY DRILLING RECORD

GREAT BEND, KANSAS

Feb. 18 19 90 RIG NO. 5

FOR 24 HOURS ENDING AT MIDNIGHT

WELL OWNER Source Petroleum LEASE Colter "A" WELL NO. 1

SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche STATE Kansas

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
6095				Harry Verkler	Layne Philbern Kenneth Cruse Howard Banks 8 hrs. Exp's
C.T.C.H.	1			DERRICKMAN	
Cement	2 3/4			MOTORMAN	
Drain up	2 3/4			HELPER	
Tear Down				HELPER	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 11:00-12:00 = C.T.C.H.				
SIZE	12:00-2:45 = Cement				
MAKE	2:45-7:00 = Drain Up + Tear Down				
SERIAL NO.					
SERIAL NO.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
				Dow K. Kram	Rex Tasson John Tommer Jesse D... RELEASED
				DERRICKMAN	
				MOTORMAN	
				HELPER	
				HELPER	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: Rig made - from here				
SIZE	MAY 28 1991				
MAKE	FROM CONFIDENTIAL				
SERIAL NO.					
SERIAL NO.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
					<div style="border: 1px solid black; padding: 5px; transform: rotate(-15deg); display: inline-block;"> MAY 22 1990 CORE LOGS UNIT U.S. GEOLOGICAL SURVEY WASHINGTON, D.C. 20508 </div>
				DERRICKMAN	
				MOTORMAN	
				HELPER	
				HELPER	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS:				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

ALLEN DRILLING COMPANY

GREAT BEND, KANSAS

ORIGINAL

DAILY DRILLING RECORD

FOR 24 HOURS ENDING AT MIDNIGHT

Feb. 17

19 90 RIG NO. 5

WELL OWNER Source Petroleum LEASE Colter "A"

WELL NO. 1

SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche

STATE Kansas

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
6095				Harry Vertler
D. ST #6	6			Layne Philbern
Repairs	3/4			Kenneth Cross
G.I.H. w/ Bit	1 1/4			Howard Banks
				8 hrs. Exp's

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.					
SIZE	7 7/8				
MAKE					
SERIAL NO.	RR				
SERIAL NO.	HP-52				
REMARKS: 11:00-5:00 = D. ST #6 5:00-5:45 = Drawworks Died; Work on Drawworks 5:45-7:00 = 6 I.H. w/ Bit Drain Fuel Lines + Chng. Filters					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
6095			Soda Ash -	Don L. KERN
			Caustic -	Ron Paxson
			Lig -	John Trimmer
			Wash Pac. -	Jesse Brown
			601 -	8 hrs

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.					
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					
REMARKS: 7:00-9:30 = DST #6 9:30-2:15 = CTCH mix mud 2:15-3:00 = LDDP - draw std pipe hose					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
6095				Robert Livingston
LDDP	2			Curtis Thorne
G.I.H. Test	1/4			Mark Chain
2 stands + collars	1/4			Bill Buckens
Pull BOP	1			8 hrs
Run up to casing	1			
Run casing	2 1/2			

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.					
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					
REMARKS: 3:00-5:00 = LDDP 5:00-5:15 = G.I.H. w/ Test stands 5:15-6:30 = LD Test stands + Drill collars 6:30-7:30 = Pull BOP 7:30-8:30 = Run up to Run casing 8:30-11:00 = Run casing					

STATE OF KANSAS
MAY 22 1990
CONSERVATOR OF MINERAL RESOURCES
Wichita, Kansas

ALLEN DRILLING COMPANY

DAILY DRILLING RECORD

GREAT BEND, KANSAS

ORIGINAL

FOR 24 HOURS ENDING AT MIDNIGHT

Feb 16

19 90 RIG NO. 5

WELL OWNER SOURCE Pet LEASE Colter "A"

WELL NO. 1

SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche

STATE KS

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
6075	6095			Harry Verkler
C.F.S.	2 1/2		6095 = T.D.	DERRICKMAN Curtis Thome
P.H. 7-1/2	2-1/4			MOTORMAN Kenneth Cruise
Log	1 1/4			HELPER Howard Brooks
				HELPER 8 hrs EXP'S

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 11:00-12:00 = C.F.S @ 6075				
SIZE 7 1/2	= C.F.S @ 6095				
MAKE CP	3:00-5:45 = P.H. 7-1/2 for log				
SERIAL NO. FH 52	5:45-2:00 = Log				
SERIAL NO. 1311 hrs					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
6095			chgd O.F.S. in DW + Pump	Don L. Kenner
				DERRICKMAN Ron Paxson
				MOTORMAN John Trimmer
				HELPER Jess Brown
			Log TD 6096	HELPER 8 hrs EXP'S

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS:				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
6075				Robert Livingston
Log	4			DERRICKMAN Curtis Thome
WOOD	2			MOTORMAN Mark Crum
Wood Tester	4			HELPER Bill Butts
2 1/2 WOOD	4 1/2			HELPER 8 hrs
DIH 1 1/2	1 1/2			

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 3:00-3:15 = Log				
SIZE	3:15-5:15 = work on orders				
MAKE	Wood Tester for 3 1/2 test #1				
SERIAL NO.	8:45-9:15 = Tester make				
SERIAL NO.	up tool on 1 1/2				
	3:15-9:30 = make up tool				
	9:30-11:00 =				
	DEH				

STATE OF KANSAS
 REGISTERED
 MAY 2 1990
 COMMERCE EXP'S
 CONSERVATION DIVISION
 WICHITA, KANSAS

ALLEN DRILLING COMPANY

GREAT BEND, KANSAS

ORIGINAL

DAILY DRILLING RECORD

FOR 24 HOURS ENDING AT MIDNIGHT

Feb. 15

19 90

RIG NO. 5

WELL OWNER

Source Petroleum

LEASE

Colter "A"

WELL NO.

1

SECTION

36

TOWNSHIP

32

RANGE

19

COUNTY

Comanche

STATE

Kansas

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED		FEET DRILLED	FORMATION	DRILLER
FROM	TO			
6065				Harry Verhler
WAO	8			Layne Philbern
				Kenneth Gruse
				Howard Banks
				8 mo Exp's

DRILLING BITS		CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: 11:00-1:00 = Wait on Orders				
SIZE		D.S.T # 5; On Bottom				
MAKE						
SERIAL NO.						
SERIAL NO.						

DRILLED		FEET DRILLED	FORMATION	DRILLER
FROM	TO			
				Don L. Krum
				Red Thayer
				John Thompson
				Tyson Brown
				8 mo Exp's

DRILLING BITS		CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: 7:00-1:30 = DST #5				
SIZE		1:30-3:00 = W.A. BDP				
MAKE						
SERIAL NO.						
SERIAL NO.						

DRILLED		FEET DRILLED	FORMATION	DRILLER
FROM	TO			
6071	6075			Robert Leung
PH 46	3 1/4			Curtis Thayer
W.A. BDP	3/4			Mark
CTCH	1			Bill
C.F.S.	1-14			Bill
DRLC	1			Bill

DRILLING BITS		CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	12	REMARKS: 3:00-4:15 PH 46 4:15-5:00 W.A. BDP				
SIZE	7 1/8	5:00-6:45 PH 13:45-7:15 W.A. BDP				
MAKE	CP	7:15-8:15 CTCH 8:15-9:15 DRLC 9:15-11:00 C.F.S.				
SERIAL NO.	FH 52	6075				
SERIAL NO.						

SITE INSPECTED
 MAY 22 1990
 CONSERVATION DISTRICT
 NICHTA KANSAS

ALLEN DRILLING COMPANY

GREAT BEND, KANSAS

DAILY DRILLING RECORD

ORIGINAL

Feb. 14

FOR 24 HOURS ENDING AT MIDNIGHT

19 90 RIG NO. 5

WELL OWNER Source Petroleum LEASE Colter "A"

WELL NO. 1

SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche

STATE Kansas

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
6002	6044			Harry Vertler
V Rig	1/4		3 - Caustic	Layne Philbern
Repairs	3/4		1 - Lignite	Kenneth Cruse
C.F.S.	1 3/4			Howard Banks
Hrs. Dr Lg.	5 1/4			8 hrs. Exp's

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 5	REMARKS: 11:00-1:15 = Dr Lg. w/ 1/4 V Rig				
SIZE 7 7/8	1:15-1:30 = PULLY on Rod Oiler Pump Came off				
MAKE Smith	1:30-3:15 = C.F.S. @ 6019				
SERIAL NO. F-3	3:15-7:00 = Dr Lg. w/ 1/2 Work on Frozen Air Lines				
SERIAL NO. FL-3848	To Pump				
Bit Hrs. 21					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
6044			4 - Soda Ash	Dan H. Kram
Dr Lg	1/4		3 - New Pac	Ray P. ...
Repairs	1/4		2 - Lignite	John ...
C.F.S.	1 1/2		4 - Caustic	John ...
DST #5	1 1/4		0 - Gnd	John ...
C.F.S.	2 1/2			John ...
Dr Lg	2 1/4			John ...

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 5	REMARKS: 7:00-9:30 = Dr Lg				
SIZE 7 7/8	9:30-11:15 = C.F.S. @ 6045 + Mix Mud, 11:15-1:45 = Mix + Dr Lg				
MAKE Smith	1:45-3:00 = DST #5				
SERIAL NO. F-3					
SERIAL NO.					
Bit Hrs 23 1/4					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
6045				Robert Livingston
DST #5				Curtis Thorne
				Al. ...
				Bill ...
				John ...

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 3:00-4:15 = PULLY on Rod Oiler Pump				
SIZE	Tool 3:00-4:15 = PULLY on Rod Oiler Pump				
MAKE	6:30-9:30 = Dr. Lg. on				
SERIAL NO.	9:30-11:00 = Work on Oiler				
SERIAL NO.					

MAY 22 1990
CONSERVATION DIVISION
WICHITA FALLS

ALLEN DRILLING COMPANY ORIGINAL DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT

Feb 13

19 90 RIG NO. 5

WELL OWNER Source Petroleum LEASE Colter "A"

WELL NO. 1

SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche

STATE Kansas

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
5941	5980			Harry Vertler
V.A. Rig	1/4		2-Caustic	DERRICKMAN
C.F.S.	1 3/4		2-Lignite	Layne Philbern
DST #4	1 1/4		20-G.R.L.	MOTORMAN
				HELPER
				HELPER
Hrs Drlg.	4 1/4			8 hrs Exp's

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 5	REMARKS: 11:00-3:30 = Drlg. w/ 1/4 V Rig				
SIZE 7 7/8	3:30-5:15 = C.F.S. @ 5980				
MAKE Smith	5:15-7:00 = DST #4				
SERIAL NO. F-3					
SERIAL NO. HL-3848					
Bit Hrs 11 1/2					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
5980				Don K...
DST #4				DERRICKMAN
				MOTORMAN
				HELPER
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 2:00-3:00 = DST #4				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
5980	1000			Robert
DST #4	2 1/4			DERRICKMAN
CTCH	1'			MOTORMAN
				HELPER
				HELPER
DRLG	4 1/4			

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 2	REMARKS: 3:00-3:30 = ...				
SIZE 7 7/8	5:45-6:45 = CTCH				
MAKE Smith	11:45-11:00 = DRLG				
SERIAL NO. F3					
SERIAL NO. 1524					
Bit Hrs 15 1/4					

ALLEN DRILLING COMPANY ORIGINAL DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT Feb. 12 1990 RIG NO. 5
 WELL OWNER Source Petroleum LEASE Colter "A" WELL NO. 1
 SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche STATE Kansas
IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
5884				Harry Verhler
				DERRICKMAN
DST #3	8			Layne Philbern
				MOTORMAN
				Kenneth Cruse
				HELPER
				Howard Banks
				HELPER
				8 hrs. Exp's

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 11:00 - 1:00 = DST #3				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
5884				Dean L. Kamm
				DERRICKMAN
				Paul Paxson
				MOTORMAN
				John Thomas
				HELPER
				Jesse Brown
				HELPER
				8 hrs

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 7:00 - 2:15 = DST #3				
SIZE	2.15 - 7:00 = CTCH				
MAKE					
SERIAL NO.					
SERIAL NO.					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
5884	5941			Robert Livingston
				DERRICKMAN
CTCH	14			Curtis Thorne
Pump	12			MOTORMAN
				Mark Crain
				HELPER
				Bill Burns
				HELPER
				8 hrs

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 3:00 - 3:15 = CTCH				
SIZE	3:15 - 4:15 = DRLG				
MAKE	4:15 - 4:45 =				
SERIAL NO.	chp pump & clean c/w				
SERIAL NO.	9:45 - 11:00 = DRLG				

CONSTRUCTION DIVISION
 WORTH, KANSAS
 MAY 2 1990

ALLEN DRILLING COMPANY

GREAT BEND, KANSAS

ORIGINAL

DAILY DRILLING RECORD

FOR 24 HOURS ENDING AT MIDNIGHT

Feb. 11

19 90 RIG NO. 5

WELL OWNER Source Petroleum LEASE Colter "A"

WELL NO. 1

SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche

STATE Kansas

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
5744	5788			Harry Verkler
V Rig	1/4		15-GEL	DERRICKMAN Layne Philbern
			10-HULLS	MOTORMAN Kenneth Cruse
			2-Caustic	HELPER Howard Banks
			1-Lignite	HELPER 8 hrs Exp's
			1-DrLg Det.	
			1-Soda ash	
Hrs DrLg.	7 3/4			

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 4	REMARKS: 11:00-7:00 = DrLg. w/ 1/4 V Rig				
SIZE 7/8					
MAKE Reed					
SERIAL NO. HP-52					
SERIAL NO. Q-60254					
Bit Hrs. 17 1/4					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
5788	5843			Dave L. Kern
CK Rig	1/4		10-HULLS	DERRICKMAN Ron Paxon
CFS	1 1/4		2-Lgs	MOTORMAN John Timmer
Jet	1/4		1-Caustic	HELPER Jesse Brown
Pump	1/4		1-Monoplc	HELPER 8 hrs
			1-DrLg Detg.	
DrLg	2 1/4			

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 4	REMARKS: 7:00-10:15 = DrLg. / Jet				
SIZE 7/8	10:15-12:00 = CFS				
MAKE Reed	12:00-3:00 = DrLg. Jet - until 2:45 / Jet				
SERIAL NO. HP52					
SERIAL NO.					
Bit Hrs. 22 1/4					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
5843	5884			Robert Leung
V Rig	1/4		10-HULLS	DERRICKMAN Curtis Thorne
Pump	1 1/4		2-Caustic	MOTORMAN Mark Crain
CFS	1 1/2		1-Lignite	HELPER Bill Brown
			1-Soda	
			1/2-Monoplc	
			1-cells block	
			30-Gel	
DRIC	5		1-CON DRIC Det	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 4	REMARKS: 3:00-8:15 = DRIC w/ 1/4 V Rig				
SIZE 1 1/2	8:15-9:30 = getting on				
MAKE RD	with the DRIC and RW, side chg liner caustic. clean 3:00-9:30				
SERIAL NO. HP52	Wired = C.F.S				
SERIAL NO.					
Bit Hrs. 27 3/4					

ALLEN DRILLING COMPANY ORIGINAL DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT

Feb. 10

19 90 RIG NO. 5

WELL OWNER Source Petroleum LEASE Colter "A"

WELL NO. 1

SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche

STATE Kansas

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
5581	5663		30-Gel 15-HULLS	Harry Vertler	Layne Philbern Kenneth Cruse Howard Banks 8 mo. Exp's
V Rig	1/4		2 - Caustic	DERRICKMAN	
Repairs	1/4		1 - Lignite	MOTORMAN	
Fill Premix	1/4		1 - Sodash	HELPER	
w/ Pit Mud			1 - DRUGS	HELPER	
Hrs. Drlg	7 1/4				

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>3</u>	REMARKS: 11:00-11:15 = V Rig				
SIZE <u>7 1/8</u>	11:15-11:30 = Replace Weight Indicator				
MAKE <u>Reed</u>	11:30-7:00 = Drlg w/ 1/4 Fill Premix w/ Pit Mud				
SERIAL NO. <u>HP-52-D</u>					
SERIAL NO. <u>RR</u>					
Bit Hrs. <u>18</u>					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
5663	5686		1 - Lignite	David J. Krum	Row Paxon John Timmerman Jesse Brown 8 hrs
CK rig	1/4		2 - Caustic	DERRICKMAN	
Bit Trip	5/4		10 - Gel EXP	MOTORMAN	
			1 - Drlg Drlg	HELPER	
Drlg	2 1/4			HELPER	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>3</u> <u>4</u>	REMARKS: 7:00-8:15 = Drlg				
SIZE <u>7 1/8</u> <u>7 1/2</u>	8:15-11:30 = Bit Trip - new smaller bit				
MAKE <u>Reed</u> <u>Reed</u>	1:30-3:00 = Drlg				
SERIAL NO. <u>RR</u> <u>9254</u>					
SERIAL NO.					
Bit Hrs. <u>19</u> <u>2 1/4</u>					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
5780	5744		2 = Caustic	Robert Lexington	Curtis Thorne Mark Crain Bill Burns
VR Rig	1/4		1 = bit	DERRICKMAN	
pump	3/4		1 = DRUGS	MOTORMAN	
				HELPER	
DRUG	7			HELPER	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>4</u>	REMARKS: 3:00-5:15 = DRUG 5:15-5:30 = VR Rig 5:30-6:50 = 1/4				
SIZE <u>7 1/2</u>	pump Reel Reel clean screen 6 1/4 DR Rig 8:00-11:00 = DRUG				
MAKE <u>RD</u>					
SERIAL NO. <u>HP-52</u>					
SERIAL NO. <u>Q10254</u>					
Bit Hrs. <u>9 1/2</u>					

MAY 2 1990
 CONSERVATION DIVISION
 WICHITA, KANSAS

ALLEN DRILLING COMPANY ORIGINAL DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT

Feb. 9

19 90 RIG NO. 5

WELL OWNER Source Petroleum LEASE Colter "A"

WELL NO. 1

SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche

STATE Kansas

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
5469	5499	1	45-Gel	Harry Verkler	Layne Philbern Kenneth Cruse Howard Banks 8 hrs. Exp's
VRig	3/4		1 - Sodash	DERRICKMAN	
ROA	3/4		2 - Lignite	MOTORMAN	
			2 - Caustic	HELPER	
			1 - Drlg Det.	HELPER	
Hrs. Drlg.	7		10 - HULLS		

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>					
SIZE <u>7/8</u>	REMARKS: <u>11:00 - 6:15 = Drlg. w/ 1/4 VRig</u>				
MAKE <u>Reed</u>	<u>6:15 - 7:00 = P.O.H For Bit Trip @ 5499</u>				
SERIAL NO. <u>RR</u>					
SERIAL NO.					
Bit Hrs. <u>22 3/4</u>					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
5499	5520			Dan L. K...	Ron P... John T... Jeff B... 8 hrs
bit trip	4 1/4			DERRICKMAN	
				MOTORMAN	
				HELPER	
				HELPER	
Drlg.	3 1/4				

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>3</u>					
SIZE <u>7/8</u>	REMARKS: <u>7:00 - 11:45 = 13 ft trip</u>				
MAKE <u>Reed</u>	<u>11:45 - 3:00 = Drlg</u>				
SERIAL NO. <u>15R</u>					
SERIAL NO. <u>HP52 D</u>					
Bit Hrs. <u>3 1/4</u>					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
5520	5580		2 = Caustic	Robert ...	Curtis ... Mark ... Bill ...
VRig	1/4		1 = Soda ash	DERRICKMAN	
Fill Bore	1/4		0 - P-106	MOTORMAN	
			1 - Soda Det	HELPER	
			20 = HULLS	HELPER	
DRLG	7 1/2		2 = Cells Fluke		
			1 = Soda ash		
			25 = Gel		

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>3</u>					
SIZE <u>7/8</u>	REMARKS: <u>9:00 - 7:45 = DRLG w/ VRig @ 5520 - 7:45 - 7:55 = Fill Bore</u>				
MAKE <u>RD</u>	<u>7:55 - 11:00 = DRLG</u>				
SERIAL NO. <u>1R</u>					
SERIAL NO.					
Bit Hrs. <u>10 - 14</u>					

ALLEN DRILLING COMPANY ORIGINAL DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT Feb. 8 19 90 RIG NO. 5
 WELL OWNER Source Petroleum LEASE Colter "A" WELL NO. 1
 SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche STATE Kansas
IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
5310	5345			Harry Vertler	Harry Vertler Layne Philbern Kenneth Cruse Howard Banks 8 mo Exp's
G.I.H w/Bit	1 1/2		3 - Coastic	DERRICKMAN	
Brk Cir.	1/4		2 - Lignite	MOTORMAN	
C.T.C.H.	1		1 - Drlg. Det.	HELPER	
C.F.S.	3/4		1 - P-10-L	HELPER	
Hrs Drlg.		2			

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: 11:00-12:30 = G.I.H w/Bit				
SIZE <u>7/8</u>	12:30-12:45 = Brk. Cir.				
MAKE <u>Reed</u>	12:45-1:45 = CTCH				
SERIAL NO. <u>RR</u>	1:45-2:30 = DrLg.				
SERIAL NO.	2:30-4:15 = C.F.S. @ 5325				
Bit Hrs <u>2</u>					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
5345	5424		1 - Co. fine	Don L. Keeney	Don L. Keeney Row Paxson John Timmerman Jesse Brown 8 hrs
ck rig	1/4		1 - Lignite	DERRICKMAN	
C.F.S.	1/2			MOTORMAN	
				HELPER	
				HELPER	
Daly		6 1/4			

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: 7:00-9:00 = Daly				
SIZE <u>7/8</u>	9:00-10:30 = C.F.S. @ 5370				
MAKE <u>Reed</u>	10:30 - = Daly				
SERIAL NO. <u>RR</u>					
SERIAL NO.					
Bit Hrs <u>8 1/4</u>					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
5424	5409		10 - Gel	Robert	Robert Curtis Mark Bill
VRig	1/4		2 - Coastic	DERRICKMAN	
DW Rig	1/4		2 - Lignite	MOTORMAN	
			1 - P. 10-L	HELPER	
			1 - DRG Det.	HELPER	
DRIG		7 1/2	10 - mud 15 - sandstone		

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: 7:00-8:30 = DRIG				
SIZE <u>7/8</u>	8:45-11:00 = DRIG				
MAKE <u>RD</u>					
SERIAL NO. <u>RR</u>					
SERIAL NO.					
Bit Hrs <u>15 1/4</u>					

ALLEN DRILLING COMPANY ORIGINAL DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT Feb. 7 1990 RIG NO. 5
 WELL OWNER Source Petroleum LEASE Colter "A" WELL NO. 1
 SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche STATE Kansas
IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
5310				Harry Verkleer	Harry Verkleer Layne Philbern Kenneth Cruse Howard Banks 8 hrs Exp's
DST #1	8			DERRICKMAN	
				MOTORMAN	
				HELPER	
				HELPER	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. SIZE MAKE SERIAL NO. SERIAL NO.	REMARKS: <u>11:00 - 7:00 = DST #1</u>				

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
5310				Daniel K...	Daniel K... Roy Pearson John Trimmer Jesse Brown 8 hrs
DST #1	3			DERRICKMAN	
CTCH				MOTORMAN	
DST #2				HELPER	
				HELPER	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. SIZE MAKE SERIAL NO. SERIAL NO.	REMARKS: <u>7:00 - 10:00 = DST #1</u> <u>= CTCH</u> <u>= DST #2</u>				

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
5310				Robert Livingston	Robert Livingston Curtis Thome Mark Crain Bill Burns 8 hrs
DST #2	8			DERRICKMAN	
				MOTORMAN	
				HELPER	
				HELPER	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. SIZE MAKE SERIAL NO. SERIAL NO.	REMARKS: <u>3:00 - 3:15 = DST #2</u> Make up tool 3:15 - 4:00 = DIH <u>4:30 - 8:00 = On Bottom test</u> 8:00 - 9:00 = POH 9:30 - 10:30 = DIH <u>Stay Down Tool 10:30 - 11:00 = DIH #1 bit</u>				

RECEIVED
 MAY 27 1990
 CONSERVATION DIVISION
 WICHA, KANSAS

ALLEN DRILLING COMPANY ORIGINAL DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT

Feb. 6

19 90

RIG NO. 5

WELL OWNER *Source Petroleum*

LEASE *Colter "A"*

WELL NO. 1

SECTION *36* TOWNSHIP *32* RANGE *19*

COUNTY *Comanche*

STATE *Kansas*

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
5115	5190			Harry Verkleer
VRig	1/4		3-Caustic	DERRICKMAN
CFS	2 1/4		2-Lignite	Layne Philbern
			1-Drly Det.	MOTORMAN
			1-P-10L	Kenneth Cruse
				HELPER
				Howard Banks
				HELPER
				8 hrs. Exp's

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 11:00-2:30 = Drly w/ 1/4 VRig				
SIZE 7/8	2:30-3:45 = CFS @ 5160				
MAKE Reed	3:45-5:45 = Drly				
SERIAL NO. HP-52	5:45-7:00 = CFS @ 5190				
SERIAL NO. Q-253					
Bit Hrs. 15 1/4					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
5190	5270			Don L. Kexin
VRig	1/4		3-Caustic	DERRICKMAN
CFS	2 1/4		2-1/2	Ray Ranson
			1-P-10L	MOTORMAN
			1-Daily Det.	John Trimmer
				HELPER
				Jesse Brown
				HELPER
				8 hrs

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 7:00-7:15 = CFS @ 5190				
SIZE 7/8	7:15-8:15 = Daily - 1/2 inch				
MAKE Reed	8:15-9:45 = CFS @ 5210				
SERIAL NO. HP-52	9:45-2:00 = Daily				
SERIAL NO. 15 1/4	2:00-2:45 = CFS @ 5265				
Bit Hrs. 15 1/4					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
5272	5310			Robert Livingston
VRig	1/4		1-COUSTIC	DERRICKMAN
CFS	1			Curtis Thorne
Shot Trip	2 1/4			Motormen
Fix chain hoist	2 1/2			HELPER
CTCH	1			Full Burns
				HELPER
				8 hrs

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 3:00-5:30 = DRLG w/ 1/4 VRig @ 5300				
SIZE 7/8	5:30-6:30 = CFS @ 5310				
MAKE RD	6:30-7:00 = Shot Trip				
SERIAL NO. HP-52	7:00-9:30 = CFS @ 5310				
SERIAL NO. 15 1/4	Shot Trip 10:00-11:00 = CTCH				
Bit Hrs. 15 1/4					

OPERATOR: [unclear]
 SUPERVISOR: [unclear]
 KANSAS
 FEB 6 1990

ALLEN DRILLING COMPANY

ORIGINAL DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT

Feb. 5

19 90

RIG NO. 5

WELL OWNER Source Petroleum LEASE

Colter "A"

WELL NO. 1

SECTION 36 TOWNSHIP 37 RANGE 19

COUNTY Comanche

STATE Kansas

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
4831	4928		20-Gel	Harry Verkler
VRig	1/4		3-Caustic	Layne Philbern
			2-Lignite	Kenneth Cruse
			2-Sodash	Howard Banks
Hrs. Drlg.	7 3/4			8 hrs. Exp's

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 11:00-7:00 = Drlg w/ 1/4 VRig				
SIZE 7/8					
MAKE Reed					
SERIAL NO. HP-52					
SERIAL NO. Q-253					
Bit Hrs. 128					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
4928	5031		Gel - 40	Dan L. Kern
ck rig	1/4		Caustic - 3	Row Parson
5 ft	1/4		lig - 2	John Trimmer
			Drill Det. - 2	Jesse Brown
			P-10L - 2	8 hrs
Drlg	1 1/2			

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 7:00-3:00 = Drlg				
SIZE 7/8					
MAKE Reed					
SERIAL NO. HP52					
SERIAL NO. 135 1/2					
Bit hrs 135 1/2					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
5031	5115		3-Caustic	Robert Leungton
VRig	1/4		1-Lignite	Curtis
Jet	1/4		1-DRILL DET	Ken Cruse
			1-P-10L	Kenneth Cruse
DRLG	1 1/2			8 hrs

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 3:00-11:00 = DRLG w/ 1/4 VRig @ 5050 w/ Jet #1140				
SIZE 7/8					
MAKE RD					
SERIAL NO. HP52					
SERIAL NO. 143					
Bit hrs 143					

CONSERVATION DIVISION
MAY 2 1990

ALLEN DRILLING COMPANY ORIGINAL DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT Feb. 4 1990 RIG NO. 5
 WELL OWNER Source Petroleum LEASE Colter "A" WELL NO. 1
 SECTION 36 TOWNSHIP 38 RANGE 19 COUNTY Comanche STATE Kansas
IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
4489	4596		35 - Gel	Harry Vertler
V Rig	1/4		3 - Caustic	Layne Philbern
C.F.S.	1/4		2 - Lignite	Kenneth Cruse
				Howard Bant's
Hrs. Drlg	6 1/2			8 hrs. Exp's

DRILLING BITS		CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	1	REMARKS: 11:00-1:30 = Drlg w/ 1/4 V Rig				
SIZE	7 7/8	1:30-2:45 = C.F.S. @ 4530				
MAKE	Reed	2:45-7:00 = Drlg.				
SERIAL NO.	HP-52					
SERIAL NO.	Q-253					
Bit Hrs	107 3/4					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
4576	4732		Caustic - 3	Dan K. Kadin
	1/4		1 - 1/2	Bob Paxson
3HT	1/4		1 - 1/2	John Trammell
C.F.S.	1/4			Jose Brown
J.T.	1/4			8 hrs

DRILLING BITS		CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	1	REMARKS: 7:00-12:15 = Drlg w/ 1/4 V Rig				
SIZE	7 7/8	12:15-1:00 = C.F.S. @ 4710				
MAKE	Reed	1:00-3:00 = Drlg w/ 1/4 V Rig				
SERIAL NO.	HP-52					
SERIAL NO.	114					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
4732	4831		3 - Caustic	Robert Livingston
V Rig	1/4		1 - Lignite	Carris Thorne
J.T.	1/4			Ben Christensen
C.F.S.	1/4			Bill Burn's
DRLG	6 1/4			8 hrs

DRILLING BITS		CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	1	REMARKS: 3:00-8:00 = DRLG w/ 1/4 V Rig @ 4740				
SIZE	7 7/8	8:00-8:15 = J.T. @ 4800				
MAKE	RD	8:15-9:30 = DRLG @ 4810				
SERIAL NO.	HP-52	9:30-10:45 = C.F.S. @ 4810				
SERIAL NO.	12044	10:45-11:00 = DRLG				

MAY 2 1990
 CONSERVATION DIVISION
 GREAT BEND, KANSAS

ALLEN DRILLING COMPANY

DAILY DRILLING RECORD

GREAT BEND, KANSAS

ORIGINAL

FOR 24 HOURS ENDING AT MIDNIGHT

Feb. 3

19 90

RIG NO. 51

WELL OWNER Source Petroleum LEASE Colter "A"

WELL NO. 1

SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche

STATE Kansas

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3933	4114		3-Caustic	Harry Vertler
V Rig	1/4			Layne Philbern
				Kenneth Cruse
				Howard Banks
Hrs Drlg	7 3/4			8 hrs Exp's

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 11:00-7:00-Drilg w/ 1/4 V Rig				
SIZE 7/8					
MAKE Reed					
SERIAL NO. HP-52					
SERIAL NO. Q-253					
BIT Hrs. 87					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
4114	4315		Caustic - 3	Donna L. K...
CR Rig	1/4		Lig - 2	Robert Trimmer
SHT	1/4			Layne Philbern
CPS	1/4			Jesse Brown
Drilg	6 1/2			8 hrs

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 7:00-2:15 = Drilg				
SIZE 7/8	2:15-3:00 = CPS @ 4315				
MAKE Reed					
SERIAL NO. HP52					
SERIAL NO. 93 1/2					
BIT Hrs. 93 1/2					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
4315	4489		3-Caustic	Robert Ledington
V Rig	1/4		2-1/2" CR	Curtis Thorne
				Ben Christiansen
				Bill Burns
Drilg	7 3/4			8 hrs

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 2:00-11:00 = DRILG @ 1/4 V Rig @ 4318				
SIZE 7/8					
MAKE RD					
SERIAL NO. HP52					
SERIAL NO. 101 1/4					

MAY 20 1991
 COMMANCHE COUNTY, KANSAS
 REGISTRATION DIVISION
 WELLS REGISTRY

ALLEN DRILLING COMPANY

DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT

Feb. 2

19 90

RIG NO. 5

WELL OWNER Source Petroleum

LEASE Colter "A"

WELL NO. 1

SECTION 36 TOWNSHIP 32 RANGE 19

COUNTY Comanche

STATE Kansas

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3495	3630			Harry Vertler
V Rig	1/4			DERRICKMAN Laine Philbern
Jet	1/4			MOTORMAN Kenneth Cruse
CFS	1			HELPER Howard Banks
Hrs. Drlg.	6 1/2			HELPER 8 hrs Exp's

DRILLING BITS	
RUN NO.	1
SIZE	7/8
MAKE	Reed
SERIAL NO.	HP-52
SERIAL NO.	Q-253
Bit Hrs.	6 5/4

CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
REMARKS: 11:00-5:30 = Drlg. w/ 1/4 V Rig + 1/4 Jet				
5:30-6:30 = CFS @ 3625				
6:30-7:00 = Drlg.				

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
2630	3742			Drew H. Kenin
ck rig	1/4			DERRICKMAN Ron Parson
Rig Work	1/4			MOTORMAN John Timm
SHT	1/4			HELPER Jesse Brown
Jet	1/4			HELPER 8 hrs
Drlg	5 1/4			

DRILLING BITS	
RUN NO.	1
SIZE	7/8
MAKE	Reed
SERIAL NO.	HP52
SERIAL NO.	
Bit Hrs	7 1/4

CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
REMARKS: 7:00-9:00 = Rig Work + ck rig				
9:00-3:00 = Drlg. / Jet + SHT				

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3742	3933			Robert Livingston
V Rig	1/4			DERRICKMAN Curtis Thorne
				MOTORMAN Paul Christensen
				HELPER Phil Burns
DRLG	7 1/4			HELPER 8 hrs

DRILLING BITS	
RUN NO.	1
SIZE	7/8
MAKE	RD
SERIAL NO.	HP 52
SERIAL NO.	
Bit Hrs	7 1/4

CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
REMARKS: 3:00-11:00 = DRLG 1/4 V Rig @ 39162				

CONSERVATION DIVISION
 W-74-36-32-19-36
 SEC. 36 T. 32 R. 19 S. 36
 COMANCHE COUNTY, KANSAS
 MAY 2 1990

ALLEN DRILLING COMPANY

GREAT BEND, KANSAS

ORIGINAL DAILY DRILLING RECORD

FOR 24 HOURS ENDING AT MIDNIGHT

Feb. 1

19 90

RIG NO.

5

WELL OWNER

Source Petroleum Lease Colter "A"

WELL NO.

1

SECTION

36

TOWNSHIP

32

RANGE

19

COUNTY

Comanche

STATE

Kansas

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
2995	3177			Harry Vertler
VRig	1/4			Layne Philbern
JET	1/4			Kenneth Cruse
				Howard Banks
Hrs. Drilg.	7 1/2			8 hrs. Exp's

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 11:00-7:00-Drilg w/ 1/4 VRig + 1/4 Jet				
SIZE 7/8					
MAKE Reed					
SERIAL NO. HP-52					
SERIAL NO. Q-253					
BIT Hrs. 46 3/4					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3177	3328			Dan L. Keenan
VRig	1/4			Ray Passer
Jet	1/4			John Turner
SH T	1/4			Tommy Brown
Kumpelias	1/4			Ed Hunt
Hrs. Drilg.	6 1/2			

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 7:00-3:00-Drilg w/ 1/4 VRig + 1/4 Jet				
SIZE 7/8					
MAKE Reed					
SERIAL NO. HP-52					
SERIAL NO. Q-253					
BIT Hrs. 5 3/4					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3328	3495			Robert Livingston
VRig	1/4			Carroll Thomas
Rig used	1/4			Per Christensen
CRS	1			W.H. Furr
Hrs. Drilg.	1 1/4			8 1/2

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 3:00-7:00-DRILG w/ 1/4 VRig + 1/4 Jet + 1/4 Jet on Drilg				
SIZE 7/8	7:00-8:00-DRILG @ 3495 8:00-11:00-DRILG				
MAKE RD					
SERIAL NO. HP-52					
SERIAL NO. Q-253					
BIT Hrs. 5 9/4					

CORSEY & COMPANY
 214 W. 10th St.
 Wichita, Kansas
 06612
 6174

ALLEN DRILLING COMPANY ORIGINAL DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT Jan. 31 1990 RIG NO. 5
 WELL OWNER Source Petroleum LEASE Cotter "A" WELL NO. 1
 SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche STATE Kansas
IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
2856				Harry Verkler	Layne Philbern Kenneth Cruse Howard Banks 8 hrs Exp's
D.W.'s Compressor	8				
Hrs. Drilg	0				

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>1</u> SIZE <u>7 7/8</u> MAKE <u>Reed</u> SERIAL NO. <u>HP-52</u> SERIAL NO. <u>Q-253</u> Bit Hrs <u>33 1/4</u>	REMARKS: <u>11:00-7:00 - D.W.'s Compressor</u>				

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
2856			chy oil - 1st stage "Lite phat"	Donald Kraw	Rex Paxson John Timmer Jesse Brown 5 8 hrs
D.W.'s mix			" fuel filler "		
			EXP'S		
Drilg					

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>1</u> SIZE <u>7 7/8</u> MAKE <u>Reed</u> SERIAL NO. <u>HP53</u> Bit hrs	REMARKS: <u>7:00 - D.W.'s mix</u>				

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
2856	2995			Robert Livingston	Curtis Thorne Ben Christiansen Bill Burns 8 hrs
D.W.	13 1/4				
JCT	14				
DRIG	6				

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>1</u> SIZE <u>7 7/8</u> MAKE <u>AD</u> SERIAL NO. <u>HP53</u> SERIAL NO. <u>3944</u>	REMARKS: <u>3:00-4:45 = WORKON OUT WITH 2 PIN 4:45-7:00 = DRIG</u> <u>7:00-9:15 = JCT # 2 2956 9:15-11:00 = DRIG</u>				

RECEIVED BY THE DISTRICT
 INSPECTOR
 DIVISION OF OIL & GAS
 KANSAS
 MAY 2 1990

ALLEN DRILLING COMPANY ORIGINAL DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT Jan 30 1990 RIG NO. 5
 WELL OWNER Source Petroleum LEASE Cotter "A" WELL NO. 1
 SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche STATE Kansas
IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	DERRICKMAN	MOTORMAN	HELPER
2856			30-6cl 1-Sodash	Harry Verkler	Layne Philbern	Kenneth Cruse	Howard Banks
Visit D.W. Motor Parts 4 1/2 Work on D.W. 1/4 P.O.H. 1 Visit on Compressor 2 Hrs. Dr. Log 0							8 hrs Exp's

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>1</u> SIZE <u>7 7/8</u> MAKE <u>Reed</u> SERIAL NO. <u>HP-52</u> SERIAL NO. <u>Q-253</u> Bit Hrs. <u>33 1/4</u>	REMARKS: 11:00-3:15 = Wait on D.W. Parts 3:15-4:00 = Work on D.W. 4:00-5:00 = P.O.H. To Surface Pipe 5:00-7:00 = Wait on Air Compressor				

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	DERRICKMAN	MOTORMAN	HELPER
2856			6cl-5	Don L. K...	Ray Parson	John Tom...	John Brown
Rig work 8							8 hrs

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>1</u> SIZE <u>7 7/8</u> MAKE <u>Reed</u> SERIAL NO. <u>HP52</u> SERIAL NO. <u>Q-253</u> Bit hrs <u>33 1/4</u>	REMARKS: 7:00-3:00 = D.W. Compressor				

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	DERRICKMAN	MOTORMAN	HELPER
2856				Robert Livingston	Curtis Thorne	Benjamin Ch...	Bill Burns
Rig work 8							8 hrs

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>1</u> SIZE <u>7 7/8</u> MAKE <u>Reed</u> SERIAL NO. <u>HP52</u> SERIAL NO. <u>Q-253</u>	REMARKS: 3:00-11:00 = D.W. Compressor				

RECEIVED
 STATE DEPARTMENT OF REVENUE
 JAN 29 1990
 COMMISSIONER
 WASHINGTON, D.C.

ALLEN DRILLING COMPANY ORIGINAL DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT Jan. 29 1990 RIG NO. 5
 WELL OWNER Source Petroleum LEASE Cobler "A" WELL NO. 1
 SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche STATE Kansas
IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
2515	2734		30-Gel	Harry Vertler	
Jet	1/4		2-Caustic	Layne Philbern	
S.H.T.	1/4		2-Lignite	Kenneth Cruse	
Conns.	1/2		2-Sodash	Howard Banks	
Hrs. Drlg. 7				8 hr. Exp's	

DRILLING BITS
 RUN NO. 1
 SIZE 7 7/8
 MAKE Reed
 SERIAL NO. HP-52
 SERIAL NO. Q-253
 Bit Hrs. 28 1/4

CASING RECORD: SIZE BOTTOMED AT CEMENT USED DEFLECTION SURVEY DEGREES OFF
 REMARKS: 11:00-7:00 - Drlg. w/ 1/4 Jet, 1/4 SHT + 1/2 Conns.
S.H.T. @ 2649 = 1°

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
2734			Gel - 85	Dow h. Kern	
ck rig	1/4		big Caustic - 4	Ray Paxson	
Jet	—		2 Ash - 4 1/2	John Trimmer	
rig work	2 1/4			Jesse Brown	
Dalg	5			8 hrs	

DRILLING BITS
 RUN NO. 1
 SIZE 7 7/8
 MAKE Reed
 SERIAL NO. HP52
 SERIAL NO. 33 1/4
 Bit hrs

CASING RECORD: SIZE BOTTOMED AT CEMENT USED DEFLECTION SURVEY DEGREES OFF
 REMARKS: 7:00-12:15 = Dalg
12:15-3:00 = D. & ash

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
2836			35-Gel	Robert Livingston	
Dwg motor	8		1 Soda ash	Curtis Thomas	
			down hole	Ben Christensen	
				Bill Burns	
Hrs. Drlg. 8				8 hr.	

DRILLING BITS
 RUN NO. 1
 SIZE 7 7/8
 MAKE Reed
 SERIAL NO. HP52
 SERIAL NO. 33 1/4
 Bit hrs

CASING RECORD: SIZE BOTTOMED AT CEMENT USED DEFLECTION SURVEY DEGREES OFF
 REMARKS: 8:00-11:00 = WORK on Dwg motor & wait on parts

CONSTRUCTION DIVISION
 GREAT BEND, KANSAS
 MAY 22 1990
 RECEIVED
 DATE APPROVED

ALLEN DRILLING COMPANY

GREAT BEND, KANSAS

DAILY DRILLING RECORD

ORIGINAL

Jan. 28

FOR 24 HOURS ENDING AT MIDNIGHT

19 90 RIG NO. 5

WELL OWNER Source Petroleum LEASE Cotter "A"

WELL NO. 1

SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche

STATE Kansas

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
1521	2117			Harry Vertler
V Rig	1/4		30-Gel	DERRICKMAN
S.H.T.	1/4		2-Lig	Layne Philbern
Jet	1/2		2-Caustic	MOTORMAN
Conns	1		2-Soda ash	Kenneth Cruse
Repairs	1/4			HELPER
Hrs. Drlg.	5 3/4			Howard Banks
				HELPER
				8 hrs. Exp's

DRILLING BITS	
RUN NO.	1
SIZE	7 1/2
MAKE	Reed
SERIAL NO.	HP-52
SERIAL NO.	Q-253
Bit Hrs.	12 3/4

CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
REMARKS: 11:00-7:00 = Drlg w/ 1/4 V Rig, 1/4 SHT = 1 1/4, 1/2 Jet, 1 Conns + 1/4 Work on Cat Head				

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
2117	2250			Dan L. Keen
OK Rig	1/4			DERRICKMAN
Pump	1/2			Ray Pixson
SHT	1/2			MOTORMAN
Big work	1/4			John Trimmer
Jet	1/4			HELPER
				Fred Brown
Drly	2 1/2			HELPER
				8 hrs

DRILLING BITS	
RUN NO.	1
SIZE	7 1/4
MAKE	Reed
SERIAL NO.	HP52
SERIAL NO.	
Bit hrs	15 1/4

CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
REMARKS: 7:00-9:15 = Drly w/ SHT & OK Rig 9:15-1:15 = Plugged bit - chg wash pipe - preliminary Jet 1:15-3:00 = Drly w/ Jet				

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
2250	2515			Robert Livingston
con	1/4		30-Gel	DERRICKMAN
V Rig	1/4		2-chg	Curtis Thorne
Jet	1/4		2-Caustic	MOTORMAN
CAS	1 1/4		2-Soda ash	Per Christensen
				HELPER
				Bill Owens
DRLG	6			HELPER
				8 hrs

DRILLING BITS	
RUN NO.	1
SIZE	7 1/2
MAKE	RD
SERIAL NO.	HP52
SERIAL NO.	
Bit hrs	2 1/2

CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
REMARKS: 3:00-5:45 = DRLG w/ V Rig @ 2275 5:45-6:00 = Jet @ 2319 6:00/9:45 = DRLG con 9:45-11:00 = CAS @ 2515				

STATE OF KANSAS
CONSERVATION DIVISION
Wichita, Kansas
MAY 22 1990

ALLEN DRILLING COMPANY

DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT

Jan 27

19 40

RIG NO. 5

WELL OWNER Source Petroleum LEASE Colter "A"

WELL NO. 1

SECTION 36 TOWNSHIP 32 RANGE 17 COUNTY Comanche

STATE Kansas

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
545	639			Harry Verkler
				DERRICKMAN Curtis Thorne
				MOTORMAN Kenneth Cruse
				HELPER Howard Barks
				HELPER 8 hrs Exp's

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 11:00-11:45 = Drlg w/ 1 1/4"			2:30-7:00 = W.D.C.	
SIZE 1 3/4"	11:45-12:00 = C.T.C.H.				
MAKE H.R.	12:00-12:30 = Survey + P.O.H.				
SERIAL NO.	12:30-1:30 = Run 8 3/4"				
SERIAL NO.	1:30-2:30 = Cement				
Bit Hrs 5					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
639	789			Dan L. Korman
				DERRICKMAN Row PAXSON
				MOTORMAN John Tripp
				HELPER JESSIE BROWN
				HELPER 8 hrs

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 7:00-11:45 = W.D.C.				
SIZE 7/8"	11:45-12:30 = Drlg Plug = 6 1/2"				
MAKE Reed	12:30-1:30 = Drlg				
SERIAL NO. HP 52					
SERIAL NO. R 253					
Bit hrs 2					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
789	1521			Robert Livingston
				DERRICKMAN Curtis Thorne
				MOTORMAN Ben Christensen
				HELPER Bill Burns
				HELPER 8 hrs

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 1	REMARKS: 3:00-5:00 = DRLG 4 1/4" R. = 2820. 5:00-6:30 = CFS 2 1070-6:30-7:00				
SIZE 7/8"	DRLG 7:00-7:30 = SHT + JET @ 7159			7:30-11:00 = DRLG	
MAKE RD					
SERIAL NO. HP 53					
SERIAL NO.					
Bit hrs 7					

ALLEN DRILLING COMPANY ORIGINAL DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT Jan. 26 1990 RIG NO. 5
 WELL OWNER Source Petroleum LEASE Cotter "A" WELL NO. 1
 SECTION 36 TOWNSHIP 32 RANGE 19 COUNTY Comanche STATE KS
IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
				Harry Verhler	Layne Philbern
					Kenneth Cruse
					Howard Banks
					8 hrs. Exp's

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: <u>7:00-3:00 = Pit Liner, work on pump + Rig up</u>				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
				Doug L. Kew	Row Paxson
					John Trimmer
					Jesse Brown
					8 hrs

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: <u>Rig up</u>				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OPERATOR
<u>0</u>	<u>545</u>			Robert Levingston	Curtis Thorne
<u>Rig up</u>	<u>114</u>				Ben Christensen
<u>RAT hole</u>	<u>14</u>				Pill Burns
<u>conn & make up 1/2" rotary chain</u>	<u>244</u>				8 hrs
<u>DRLC</u>	<u>414</u>				

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: <u>3:00-3:45 = Rig up, 3:45-4:00 = RAT hole 4:00-4:15 =</u>				
SIZE	<u>DRLC 40 FT 4:15-4:45 = make up 1 1/2" Kelly pipe New bit 4:45-11:00</u>				
MAKE	<u>DRLC 4 1/2" 4" conn 1/2" fix rotary chain</u>				
SERIAL NO.					
SERIAL NO.					

CONSERVATION DIVISION
 WHITE, KANSAS
 MAY 27 1990

ALLEN DRILLING COMPANY ORIGINAL DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT Jan 25 19 90 RIG NO. 5

WELL OWNER _____ LEASE _____ WELL NO. _____

SECTION _____ TOWNSHIP _____ RANGE _____ COUNTY _____ STATE Kansas

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	176 miles DRILLER	
					<u>Harry Vertler</u>
				DERRICKMAN	<u>Layne Philbern</u>
				MOTORMAN	<u>Kenneth Cruise</u>
				HELPER	<u>Howard Banks</u>
				HELPER	<u>8 hrs.</u>

DRILLING BITS		CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: <u>Flar lower - lead out</u>				
SIZE						
MAKE						
SERIAL NO.						
SERIAL NO.						

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	
					<u>Don E. Kinn</u>
				DERRICKMAN	<u>Ray Pearson</u>
				MOTORMAN	<u>John Timmerman</u>
				176 mi HELPER	<u>Jesse Brown</u>
				HELPER	<u>8 hrs</u>

DRILLING BITS		CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: <u>Flar lower - lead out</u>				
SIZE						
MAKE						
SERIAL NO.						
SERIAL NO.						

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	
				DERRICKMAN	
				MOTORMAN	
				HELPER	
				HELPER	

DRILLING BITS		CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS:				
SIZE						
MAKE						
SERIAL NO.						
SERIAL NO.						

REGISTRATION DIVISION
 MAY 2 1990
 WICHITA, KANSAS