

ORIGINAL

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

Operator: License # 5428

Name: Graves Drilling Co., Inc.

Address P.O. Box 8250

City/State/Zip Wichita, KS 67208

Purchaser: _____

Operator Contact Person: Fredrick W. Stump

Phone (316) 687-2777

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Fredrick W. Stump

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIDW Temp. Abd.
 Gas EMHR SIGW
 Dry Other (Core, WSV, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

05-29-93 06-05-93
Spud Date Date Reached TD Completion Date

API NO. 15- 095-21,672-00

County Kingman

NE - NE - SW Sec. 10 Twp. 28 Rge. 5 ^E ^W

2310 Feet from (circle one) Line of Section

2310 Feet from (circle one) Line of Section

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

Lease Name Ruby Well # 1

Field Name Wildcat

Producing Formation Mississippi

Elevation: Ground 1411' KB 1420'

Total Depth 3935' PBTD _____

Amount of Surface Pipe Set and Cemented at 235' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cnt.

Drilling Fluid Management Plan DIA 6-21-93
(Data must be collected from the Reserve Pit)

Chloride content 5000 ppm Fluid volume 700 bbls

Dewatering method used hailed

Location of fluid disposal if hauled offsite: _____

Operator Name Pintel petroleum Co.

Lease Name Wilson License No. 5086

NW Quarter Sec. 32 Twp. 27S S Rng. 5W E/W

County Kingman Docket No. CD-11808

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

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

Signature Fredrick W. Stump

Title Geologist Date 6/16/93

Subscribed and sworn to before me this 16th day of June 19 93.

Notary Public Phyllis A. Freeman

Date Commission Expires June 9, 1994

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

PHYLLIS A. FREEMAN
NOTARY PUBLIC
STATE OF KANSAS
My Appl. Exp.

RECEIVED
KCC
KCS
KANSAS CORPORATION COMMISSION

JUN 22 1993

CONSERVATION DIVISION
WICHITA, KS

pl

Operator Name Graves Drilling Co., Inc. Lease Name Ruby Well # 1
 Sec. 10 Twp. 28 Rge. 5 East West
 County Kingman

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 checked="" 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	Lansing	2996'	-1576'
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Base Kansas City	3436'	-2016'
		Mississippian	3832'	-2412'

List All E.Logs Run:
 1. Dual Induction Laterolog
 2. Spectral Density Dual Spaced Neutron II Log
 3. Coral

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8-5/8"	24#	235'	60/40 poz	175	2% gel 3% cc

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

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

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.			Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil <i>DRP</i>	Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval _____

ORIGINAL

DRILLER'S WELL LOG

RUBY #1
NE NE SW
Section 10-28S-5W
Kingman County, Kansas

GRAVES DRILLING CO., INC.
ELEVATIONS: 1411'Gr. 1420' KB
COMMENCED: May 29, 1993
COMPLETED: June 5, 1993

0' - 235'	Surface soil, clay
235' - 1403'	Shale
1403' - 2040'	Shale and Lime
2040' - 2947'	Lime and Shale
2947' - 2986'	Brown Lime
2986' - 3376'	Lansing
3376' - 3441'	Base Kansas City
3441' - 3666'	Cherokee
3666' - 3834'	Mississippian
3935'	RTD
3933'	LTD
D & A	

SURFACE CASING: Set 6 jts.
8-5/8"x24# at 235'. Cemented
with 175 sacks 60/40 Pozmix, 2%
gel, 3% cc.

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KANSAS CORPORATION COMMISSION
JUN 22 1993
CONSERVATION DIVISION
WICHITA, KS

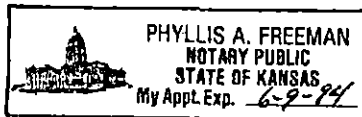
AFFIDAVIT

STATE OF KANSAS)
) SS:
COUNTY OF SEDGWICK)

Fredrick W. Stump, of lawful age, does swear and state that the facts and statements herein are true and correct to the best of his knowledge.

Fredrick W. Stump
Fredrick W. Stump

Subscribed and sworn to me this 18th day of June, 1993.



Phyllis A. Freeman
NOTARY PUBLIC

My Commission Expires: 6/9/94

ORIGINAL

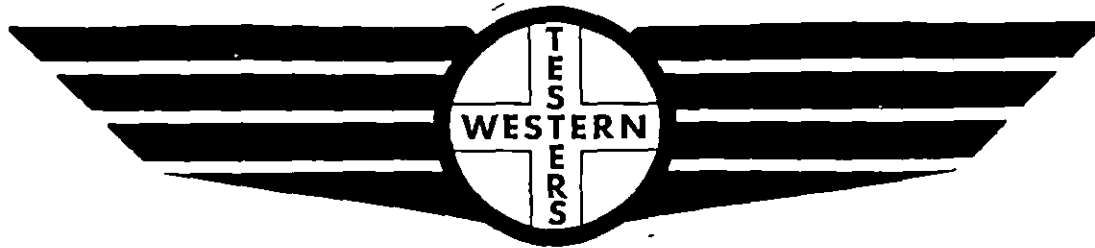
FORMATION TEST

REPORT

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KANSAS CORPORATION COMMISSION

JUN 22 1993

CONSERVATION DIVISION
WICHITA, KS



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY GRAVES DRILLING CO., INC. LEASE & WELL NO. #1 RUBY
SEC. 10 TWP. 28S RGE. 5W TEST NO. 1 DATE 6/4/93

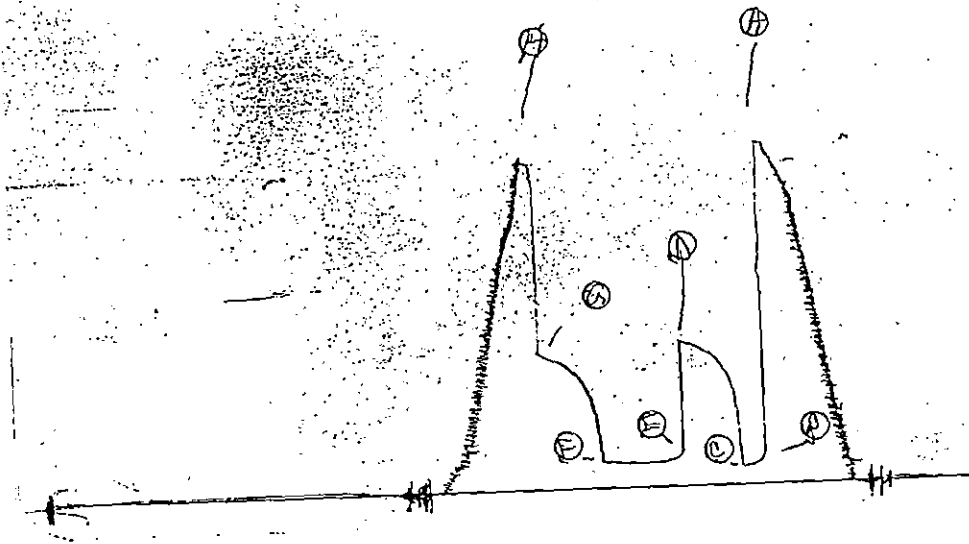
13286 DST#1



~~KT~~ 19605

ORIGINAL

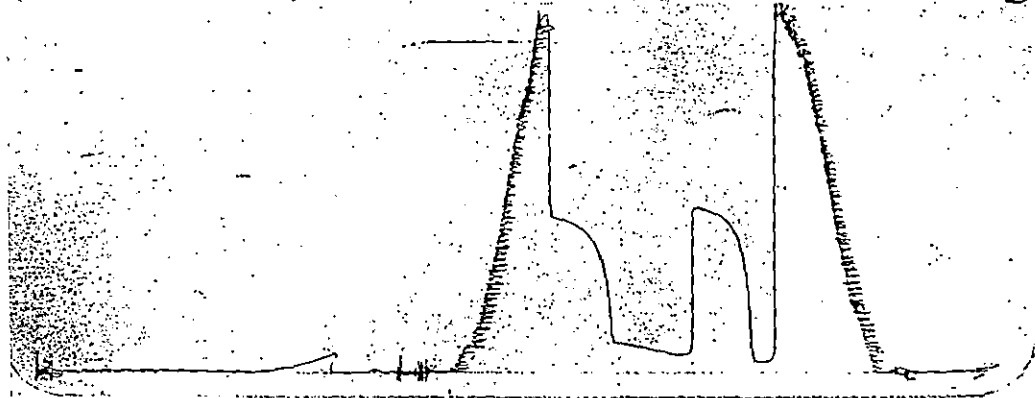
I



Inside Recorder

13285 DST#1

~~KT~~ 19605



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 6/4/93	TICKET	: 19602
CUSTOMER	: GRAVES DRILLING CO., INC	LEASE	: RUBY
WELL	: #1 TEST: 1	GEOLOGIST	: STUMP
ELEVATION	: 1420 KB	FORMATION	: MISSISSIPPI
SECTION	: 10	TOWNSHIP	: 28S
RANGE	: 5W COUNTY: KINGMAN	STATE	: KS
GAUGE SN#	: 13268 RANGE : 4225	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3841.00 ft	TO:	3864.00 ft	TVD:	3864.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3853.0 ft		3856.0 ft		
TEMPERATURE:	122.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:		0.000 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3821.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	23.0 ft	ANCHOR SIZE:		5.500 in	
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:		0.750 in	
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :		4.5FH	
PACKER DEPTH:	3836.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3841.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	DUKE RIG 5	VISCOSITY :	56.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT :	9.100 ppg	SERIAL NUMBER:	
CHLORIDES :	6300 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

STRONG BLOW ON BOTH FLOW PERIODS. NO GAS TO SURFACE.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
60.0	0.0	10.0	0.0	90.0	SL OIL CUT GASSY MUD
240.0	0.0	0.0	80.0	20.0	MUDDY WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 98000 PPM
0.0	0.0	0.0	0.0	0.0	900 FT GAS ABOVE FLUID

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	75.0000	min.
GAS VOLUME:	0.4725	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	1.4307	STB	AVERAGE WATER RATE:	64.6334	STB/D
WATER VOLUME:	2.6931	STB			
TOTAL FLUID :	4.1237	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1888.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	106.00	106.00
INITIAL SHUT-IN	45.00		800.00
FINAL FLOW	60.00	138.00	138.00
FINAL SHUT-IN	45.00		746.00

FINAL HYDROSTATIC PRESSURE: 1803.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1873.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	129.00	103.00
INITIAL SHUT-IN	45.00		801.00
FINAL FLOW	60.00	138.00	147.00
FINAL SHUT-IN	48.00		755.00

FINAL HYDROSTATIC PRESSURE: 1790.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 6/4/93	TICKET	: 19602
CUSTOMER	: GRAVES DRILLING CO., INC	LEASE	: RUBY
WELL	: #1 TEST: 1	GEOLOGIST	: STUMP
ELEVATION	: 1420 KB	FORMATION	: MISSISSIPPI
SECTION	: 10	TOWNSHIP	: 28S
RANGE	: 5W COUNTY: KINGMAN	STATE	: KS
GAUGE SN#	: 13268 RANGE : 4225	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	129.00	129.00
5.00	129.00	0.00
10.00	111.00	-18.00
15.00	103.00	-8.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	290.00	290.00	0.00
6.00	472.00	182.00	0.00
9.00	564.00	92.00	0.00
12.00	614.00	50.00	0.00
15.00	665.00	51.00	0.00
18.00	693.00	28.00	0.00
21.00	715.00	22.00	0.00
24.00	733.00	18.00	0.00
27.00	747.00	14.00	0.00
30.00	760.00	13.00	0.00
33.00	769.00	9.00	0.00
36.00	780.00	11.00	0.00
39.00	790.00	10.00	0.00
42.00	796.00	6.00	0.00
45.00	801.00	5.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	138.00	138.00
5.00	138.00	0.00
10.00	138.00	0.00
15.00	138.00	0.00
20.00	138.00	0.00
25.00	138.00	0.00
30.00	138.00	0.00
35.00	138.00	0.00
40.00	139.00	1.00
45.00	141.00	2.00
50.00	143.00	2.00
55.00	145.00	2.00
60.00	147.00	2.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	328.00	328.00	0.00
6.00	437.00	109.00	0.00
9.00	520.00	83.00	0.00
12.00	562.00	42.00	0.00
15.00	600.00	38.00	0.00
18.00	630.00	30.00	0.00
21.00	653.00	23.00	0.00
24.00	669.00	16.00	0.00
27.00	687.00	18.00	0.00
30.00	700.00	13.00	0.00
33.00	710.00	10.00	0.00
36.00	716.00	6.00	0.00
39.00	726.00	10.00	0.00
42.00	736.00	10.00	0.00
45.00	747.00	11.00	0.00
48.00	755.00	8.00	0.00



INVOICE

HALLIBURTON SERVICES

ORIGINAL

A Halliburton Company

INVOICE NO.	DATE
364416	06/05/1993

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
UBY 1		KINGMAN		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
RATT		DUKE DRILLING #5	PLUG TO ABANDON		06/05/1993
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
37790	JOE LIVINGSTON			COMPANY TRUCK	51708

GRAVES DRILLING CO INC
800 TALLGRASS EXECUTIVE PARK
8100 E. 22ND STREET
WICHITA, KS 67226

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	50	MI	2.75	137.50 *
		1	UNT		
090-910	MISCELLANEOUS PUMPING JOB	1	TRK	395.00	395.00 *
090-928	MISCELLANEOUS PUMP JOB-ADD HRS	1	HR	130.00	130.00 *
		1	TRK		
504-308	CEMENT - STANDARD	81	SK	6.76	547.56 *
506-105	POZMIX A	3672	LB	.055	201.96 *
506-121	HALLIBURTON-GEL 2%	2	LB	.00	N/C *
507-277	HALLIBURTON-GEL BENTONITE	5	SK	15.50	77.50 *
500-207	BULK SERVICE CHARGE	145	CFT	1.25	181.25 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	299.03	TMI	.85	254.18 *
INVOICE SUBTOTAL					1,924.95
DISCOUNT - (BID)					346.48
INVOICE BID AMOUNT					1,578.47
*-KANSAS STATE SALES TAX					77.32
*-PRATT COUNTY SALES TAX					15.80
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$1,671.59

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KANSAS CORPORATION COMMISSION
JUN 22 1993
CONSERVATION DIVISION
WICHITA, KS

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JUN 11 1993
5316 12038

TERMS 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.



HALLIBURTON SERVICES

A Halliburton Company

P.O. BOX 951046
DALLAS, TX 75395-1046

ORIGINAL

INVOICE NO.	DATE
324707	05/29/1993

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
UBY 1		KINGMAN		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
RATT		DUKE DRILLING CO	CEMENT SURFACE CASING		05/29/1993
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
37790	R G MILLER			COMPANY TRUCK	51368

GRAVES DRILLING CO INC
800 TALLGRASS EXECUTIVE PARK
8100 E. 22ND STREET
WICHITA, KS 67226

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OR 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	RICING AREA - EASTERN AREA 1 MILEAGE	50	MI	2.75	137.50
		1	UNT		
030-503	WOODEN PLUG	8 5/8	IN	95.00	95.00
		1	EA		
001-016	CEMENTING CASING	235	FT	515.00	515.00
		1	UNT		
504-308	CEMENT - STANDARD	105	SK	6.76	709.80
506-105	POZMIX A	4760	LB	.055	261.80
506-121	HALLIBURTON-GEL 2X	3	LB	.00	N/C
509-406	ANHYDROUS CALCIUM CHLORIDE	5	SK	28.25	141.25
500-207	BULK SERVICE CHARGE	185	CFT	1.25	231.25
500-306	MILEAGE CMTG MAT DEL OR RETURN	383.075	TMI	.85	325.61
INVOICE SUBTOTAL					2,417.21
DISCOUNT - (BID)					403.44
INVOICE BID AMOUNT					1,933.77
*- KANSAS STATE SALES TAX					65.45
*- PRATT COUNTY SALES TAX					13.35
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$2,012.57

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KANSAS CORPORATION COMMISSION
JUN 22 1993
CONSERVATION DIVISION
WICHITA, KS

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5304 112038

TERMS 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.