

ORIGINAL

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

API NO. 15- 175-21161-8090

County Seward

N/2 N/2 SW/4 Sec. 19 Twp. 31S Rge. 31 XX East West

2310' Ft. North from Southeast Corner of Section

3960' Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

Lease Name S.W. College Well # 2

Field Name Thirty One Field

Producing Formation Morrow Sand (Dry hole)

Elevation: Ground 2835' KB 2846'

Total Depth 5600' PBTD N/A

Operator: License # 3855

Name: P&M Petroleum Management

Address 1600 Broadway

Suite #1700

City/State/Zip Denver, CO 80202

Purchaser: N/A - Dry Hole

Operator Contact Person: Robert W. Peterson

Phone (303) 861-2470

Contractor: Name: Exeter Drilling Company

License: 3098

Wellsite Geologist: James L. Reed

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OWD: old well info as follows:
Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

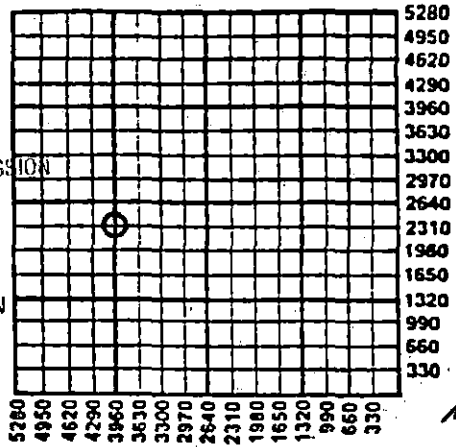
Mud Rotary Air Rotary Cable

12-27-90 1-5-91 1-6-91
Spud Date Date Reached TD Completion Date

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Wichita, Kansas



Amount of Surface Pipe Set and Cemented at 1519 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 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 Robert W. Peterson

Title Petroleum Engineer Date 3-19-91

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

19 91
Notary Public [Signature]

Date Commission Expires 3-13-94

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

SIDE TWO

Operator Name P&M Petroleum Management Lease Name S.W. College Well # 2

Sec. 19 Twp. 31S Rge. 31 East West
 County Seward

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

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

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

DST #1, 5430-5520' Morrow Sand
 TO 15 mins. SI 60 mins. TO 60 mins. SI 120 mins. Initial blow strong-off bottom of bucket. Final blow strong-off bottom of bucket in 1 min., decreasing to 8" when SI. Rec. 90' of heavily gas cut mud, 279' gas in pipe. IHP 2796 psi; FHP 2695 psi, ISIP

Formation Description

Log Sample

Name	Top	Bottom
Heebner	4213'	4229'
Toronto	4229'	4320'
Lansing	4320'	4944'
Marmaton	4944'	5455'
Cherokee Shale	5455'	5498'
Lower Morrow Sand	5498'	5514'
Mississippian	5514'	5600' TD

137 psi; FSIP 167 psi; CASING RECORD New Used
 IFP 78-78 psi; FFP 88-88 psi; Report all strings set-conductor, surface, intermediate, production, etc.
 BH Temp. 126°F.

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	1519	Class "H"	500	3/4 lb. Floccul/sack

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
Shots Per Foot	Specify Footage of Each Interval Perforated	Amount	Depth
P&A		P&A	

TUBING RECORD

Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
P&A			

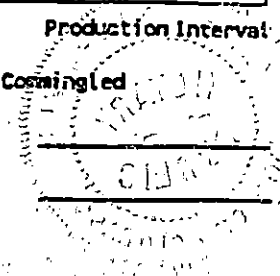
Date of First Production P&A Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Coamingled Other (Specify) _____

Production Interval: _____





REEVES GEOLOGICAL SERVICES, INC.

JAMES L. REEVES

Geologist

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Phone: (913) 475-3325

P.O. Box 16
Oberlin, Kan. 67749

WELL REPORT

E & M Petroleum Management

#2 Southwest College
2310' FSL & 3960' FEL of
Section 19 - T31S - 31W
Seward County, Kansas

APL 15-175-21161

By: James L. Reeves

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Wichita, Kansas

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WELL DATA

Well: #2 Southwest College
Operator: P. & M. Petroleum Management
Location: 2310' FSL & 3960' FEL of Section 19 - Township 31 South
- Range 31 West
County: Seward
State: Kansas
Elevation: 2835' GL 2846' KB
Contractor: Exeter Drlg. Co., Rig 2, Lewis Ledbetter, Toolpusher
Spud: 2:00 p.m., December 27, 1990
Surface Casing: 37 jt. 8 5/8 casing set @ 1519' w/500 sx. Class H 3/4#
flocele, 150 sx. Class H
Mud: Chemical Mud by Mil Park Mud, Mike Whitefield, Engineer
Drillstem Tests: Trilobite Testing, Dan Bangle, Tester
Logs: Great Guns, Bob Harrel, Engineer - Dual Induction Log,
Compensated Density Compensated Neutron Log
Completed Drilling: 11:58 p.m., January 5, 1991
Status: dry and abandoned

CHRONOLOGICAL HISTORY

<u>Date</u>	<u>Depth @ 7:00 A.M.CT</u>	<u>Day of Operation</u>	<u>Operation</u>
12-27-90	0	1	Rig Up
12-28-90	710	2	Drilling
12-29-90	1520	3	Run Surface
12-30-90	1874	4	Drilling
12-31-90	2940	5	Drilling
01-01-91	3663	6	Drilling
01-02-91	4410	7	Drilling
01-03-91	4883	8	Drilling
01-04-91	5364	9	Drilling
01-05-91	5520	10	Dst #1
01-06-91	5600	11	Logging

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FORMATION LOG TOPS

<u>Formation</u>	<u>Depth</u>	<u>Datum Reference</u>	<u>Sea Level</u>
Heebner	4213		-1367
Toronto	4229		-1383
Lansing	4320		-1474
Marmaton	4944		-2098
Cherokee Shale	5455		-2276
Lower Morrow Sand	5498		-2652
Mississippian	5514		-2668
R.T.D.	5600		-2754
L.T.D.	5596		-2750

BIT RECORD

<u>Bit #</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Depth Out</u>	<u>Feet Cut</u>	<u>Hours Run</u>	<u>Deviation</u>
1	12 1/4	Reed	HP11	1520	1520	16 1/2	1 1/4°
2	7 7/8	HTC	ATJ11C	4599	3079	78 1/4	1/2°
3	7 7/8	HTC	ATJ22S	5600	1001	<u>49</u> 143 3/4	1/2°

DRILLSTEM TESTS

DST #1

Interval: 5430 - 5520

Times: 15"-60"-60"-120"

Flows: Initial blow strong - off bottom of bucket
Final blow strong - off bottom of bucket in 1 min.
decreasing to 8 inch when shut in

Recovery: 90' of heavy gassy mud
279' gas in pipe

Pressures: IHP: 2796 IFP: 78 - 78
ISIP: 137 FFP: 88 - 88
FSIP: 167 FHP: 2695

Temperatures: 126°

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MUD PROPERTIES

Depth	4599	5111	5473	5520
M.W.	8.9	9	9.1	9.1
Vis	31	35	44	45
Y.P.	4	9	12	13
G.S.	2-3	4-8	4-11	5-12
pH	8	9.3	10.5	10.5
W.L.	N.C.	18	7.4	7.8
M.C.	1	2	1	1
Cl	4000	2500	2000	2100
Ca	240	1160	0	0
Sd	tr	.25	.25	.25
Solids	2.7	3.1	3.8	3.8
LCM	0	1	2	2

SAMPLE DESCRIPTIONS

Samples at depth caught, formations at log depth.

4450 - 60	tite tan fine crystalline fossil lime wackestone
4460 - 80	tite tan-lite grey fine crystalline slightly fossil lime mudstone lite grey opaque fossil chert
4480 - 90	barren buff fine crystalline lime mudstone
4490 - 4500	buff-lite brown fine crystalline fossil lime wackestone
4500 - 10	buff barren medium oolitic lime
4510 - 30	tite cream-tan fine crystalline slightly fossil lime mudstone
4530 - 40	as above, trace barren buff medium oolitic lime
4540 - 50	barren buff medium oolitic lime, tite tan-buff fine crystalline lime mudstone, buff opaque chert
4550 - 60	tite cream-tan slightly fossil lime mudstone, white opaque chert
4560 - 70	tite brown crystalline fossil lime wackestone, grey-green shale
4570 - 80	tite brown slightly fossil lime
4580 - 90	dark grey-green shale, black carbonaceous shale, dark brown lime with brown opaque chert
4590 - 4610	no sample

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4610 - 20 red grey and green shale
 4620 - 30 as above, trace barren buff medium oolitic lime
 4630 - 40 black carbonaceous shale, dark grey-brown microcrystalline lime mudstone
 4640 - 50 as above, barren buff medium oolitic lime
 4650 - 60 oolitic lime as above, cream-buff tite lime mudstone, white opaline chert
 4660 - 70 tite barren cream buff crystalline medium oolitic packstone
 4670 - 80 as above, dense brown lime, brown opaque chert
 4680 - 4730 new sample catcher, save big cavings and threw away cuttings
 4730 - 40 lite grey-brown tite lime mudstone
 4740 - 50 dense brown slightly fossil lime mudstone
 4750 - 70 dense lite grey brown slightly fossil lime mudstone, grey opaque chert
 4770 - 80 tan-lite brown lime mudstone, subchalky in part
 4780 - 4800 dense dark brown lime mudstone
 4800 - 4820 as above with black carbonaceous shale
 4820 - 30 tan-buff medium oolitic crystalline barren oolitic lime
 4830 - 50 lime as above, red and green shale
 4850 - 70 dense brown lime, black carbonaceous shale
 4870 - 80 cream-buff fine crystalline oolitic and fossil lime packstone some barren oolitic
 4880 - 90 dense brown fossil lime wackestone
 4890 - 4920 dense lite grey-brown lime grey-black shale
 4920 - 30 dark grey-black shale and limey shale
 4930 - 50 as above, lite grey-brown tite slightly fossil lime mudstone
 4950 - 70 trace buff crystalline medium oolitic lime

Marmaton 4944 (- 1367)

4970 - 80 cream-tan crystalline oolitic fine fossil lime packstone some barren oolitic porosity
 4980 - 90 barren cream-tan crystalline oolitic fossil lime packstone trace white opaque chert
 4990 - 5000 tite cream medium oolitic packstone
 5000 - 10 grey-black shale, cream-buff crystalline medium oolitic fossil lime packstone with barren oolitic porosity
 5010 - 30 barren cream-buff fine crystalline fossil lime wackestone
 5030 - 40 grey-brown crystalline fossil tite lime wackestone, grey-green shale
 5040 - 50 as above, some black shale
 5050 - 60 tite tan-brown lime mudstone, grey shale
 5060 - 70 tan lime mudstone, grey-green shale
 5070 - 80 buff-lite brown fossil tite crystalline lime wackestone, lite grey opaque chert
 5080 - 90 black carbonaceous shale
 5090 - 99 grey-green and black shale, dense dark brown lime mudstone
 5099 - 30" tan-buff fine crystalline fine-medium oolitic lime packstone with barren oolitic porosity
 5099 - 60" tite tan-buff crystalline fossil lime wackestone with tan-lite grey opaque chert

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5099 - 5110 as above
5110 - 20 as above, lite brown limey shale
5120 - 30 black carbonaceous shale
5130 - 40 as above, grey-green shale, barren buff fine crystalline fossil lime packstone

Cherokee Shale 5122 (- 2276)

5140 - 60 black carbonaceous shale, grey shale, tite buff fine crystalline lime wackestone
5160 - 70 buff-lite brown crystalline fossil lime wackestone
5170 - 90 lime as above, some barren fossilcast porosity, grey-green shale
5190 - 5200 tite lite brown crystalline fossil lime wackestone, brown slightly fossil translucent chert
5200 - 10 as above with grey-green shale
5210 - 20 grey-black shale, dark brown fossil lime wackestone
5220 - 30 buff, grey and brown tite crystalline fossil lime wackestone
5230 - 40 buff fine crystalline fossil lime wackestone, buff-lite brown translucent chert
5240 - 50 lime as above, grey-green shale, black carbonaceous shale
5250 - 60 grey-black shale and limey shale
5260 - 70 black shale, buff-lite brown fossil and oolitic lime wackestone
5270 - 80 dense slightly fossil lite brown lime mudstone
5280 - 90 black carbonaceous shale
5290 - 5300 mottle brown-black fossil lime wackestone
5300 - 10 lime as above, some buff, grey-black shale
5310 - 50 buff-brown crystalline fossil lime wackestone, buff, white and brown chert, interbedded with grey shale
5350 - 60 mottled buff-brown-grey fossil lime wackestone with grey-black shale
5360 - 90 black carbonaceous shale, dense buff-lite brown slightly fossil lime mudstone
5390 - 5430 mottled grey-brown dense slightly fossil lime mudstone, black shale, amber-lite grey translucent chert
5430 - 60 mottled dark brown-black dense fossil lime wackestone interbedded with black carbonaceous shale

Merrow Shale 5455 (- 2609)

5460 - 70 as above, trace tan-grey shale
5470 - 80 tan and grey shale, trace pale green sand of very fine grain clear colorless rounded quartz with quartz cement abundant glauconite slightly friable, no fluorescence no cut, some fine grain sandy fossil glauconitic lime
5480 - 90 tan-grey shale, lite green glauconitic very fine grain sandy silty clay, few chips tite very fine grain tan quartz sand
5490- 5510 green glauconitic fine grain quartz sand lenses with clay fill, lite grey shale and fine grain sandy shale, no fluorescence, no cut

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Lower Morrow Sand 5498 (- 2652)

- 5510 - 20 tan lite grey very fine grain rounded quartz sand with lime cement, abundant glauconite, slightly friable, most tite, no fluorescence, no cut
- 5520 - 20" lite grey very fine-fine grain rounded quartz sand, abundant glauconite pebbles, moderate lime cement, some chips friable, no fluorescence, no cut
- 5520 - 40" as above, more lime cement, trace dense brown fossil lime

Mississippi 5514 (- 2668)

- 5520 - 60" lime as above, tan-grey micaceous shale and clay
- 5520 - 30 trip cavings
- 5530 - 40 grey black shale and micaceous fine grain sandy shale
- 5540 - 50 as above, dense cream-tan lime mudstone
- 5550 - 60 lime as above, green clay and green glauconitic fine grain sandy clay
- 5560 - 70 tan-pale green-lite grey micaceous shale, dense tan-buff lime mudstone, tite buff crystalline fossil lime wackestone
- 5570 - 80 dense tan-lite brown microcrystalline lime mudstone
- 5580 - 90 as above, tite barren buff crystalline fossil lime wackestone, lite grey shale
- 5590 - 5600 buff fine crystalline fine-medium oolitic tite lime packstone
- 5600 - 30" dense buff-pale green lime mudstone
- 5600 - 60" as above

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DALLAS, TX 75395-1046

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

ORIGINAL

INVOICE NO.	DATE
093133	01/06/1991

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
SOUTHWEST COLLEGE 2		SEWARD		KS	P & M PET. MANG.
SERVICE LOCATION	CONTRACTOR		JOB PURPOSE		TICKET DATE
LIBERAL	EXETER #2		PLUG TO ABANDON		01/06/1991
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
279379	LEWIS LEDBETTER			COMPANY TRUCK	0840

Att: Steve Hertzler

EXETER DRILLING CENTRAL
FIRST OKLAHOMA TOWER STE 2670
210 WEST PARK AVE
OKLAHOMA CITY, OK 73102

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	34	MI	2.35	79.90
		1	UNT		
000-118	MILEAGE SURCHARGE-CEMENT-LAND	34	MI	.40	13.60
		1	UNT		
009-019	PLUGGING BK SPOT CEMENT OR MUD	1530	FT	960.00	960.00
		1	UNT		
504-043	PREMIUM CEMENT	75	SK	6.85	513.75
506-105	FOZMIX A	50	SK	3.91	195.50
506-121	HALLIBURTON-GEL 2%	2	SK	.00	N/C
507-277	HALLIBURTON-GEL BENTONITE	4	SK	13.75	55.00
500-307	MILEAGE SURCHARGE-CEMENT MAT.	262.03	TMI	.10	26.20
500-207	BULK SERVICE CHARGE	133	CFT	1.10	146.30
500-306	MILEAGE CMTG MAT DEL OR RETURN	262.03	TMI	.75	196.52
INVOICE SUBTOTAL					2,186.77
DISCOUNT-(BID)					327.99
INVOICE BID AMOUNT					1,858.78
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$1,858.78

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STATE CORPORATION COMMISSION

MAR 22 1991

CONSERVATION DIVISION
Wichita, Kansas

BOB - THIS INVOICE HAS MADE A LONG TRIP - TO OKLAHOMA CITY BEFORE BEING RECEIVED. THE LOCATIONS OF THE PLUGS ARE ATTACHED. IT WOULD SAVE SOME PAPERWORK IF YOU WOULD PAY HALLIBURTON DIRECT. PLEASE ADVISE ME IF YOU WOULD HAVE 3RD PARTY BILLING THROUGH EXETER, BUT LET ME KNOW IF THERE IS A PROBLEM WITH THAT.

[Signature]

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

Division, Oklahoma 73538
ORIGINAL
 A Division of Halliburton Company

TICKET NO. **093133**

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME Southwest College		COUNTY Seward	STATE Ks	CITY / OFFSHORE LOCATION	DATE 1-6-70
CHARGE TO Exeter Drilling		OWNER PSM Pet Mang.	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 Exeter # 2	LOCATION 1 Liberal Ks	CODE 25540	
CITY, STATE, ZIP		SHIPPED VIA Howco	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT	LOCATION 2 Houston Ks	CODE 25535
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO. B-907021	DELIVERED TO Loe A Kismet	LOCATION 3	CODE
TYPE AND PURPOSE OF JOB 115		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	34	mi	1	SA	2.35	79	90
000-118		1		Sir Charge mi	"	"	"	"	110	13	67
009-019				Pump Charge	1530	FT				960	-

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STATE CORPORATION COMMISSION

MAR 22 1991

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CONSERVATION DIVISION
STATE CORPORATION COMMISSION
Wichita, Kansas

MAR 22 1991

CONSERVATION DIVISION
Wichita, Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B- 907021

1133 27

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X **Lewis L. Hutter**
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X **Lewis L. Hutter**
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.

Tim Bohannon
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

FIELD OFFICE

SUB TOTAL **2186 77**

APPLICABLE TAXES WILL BE ADDED ON INVOICE

**AND
 TICKET CONTINUATION**

ORIGINAL

FOR INVOICE AND
 TICKET NO. **0921 3**

DATE 1-6-91	CUSTOMER ORDER NO.	WELL NO. AND FARM Southwet College 2	COUNTY Seward	STATE Ks.
CHARGE TO Exeter Drlg.		OWNER	CONTRACTOR	No. B 907021
MAILING ADDRESS		DELIVERED FROM Hugoton, Ks.	LOCATION CODE 25535	PREPARED BY Neal
CITY & STATE		DELIVERED TO Loc. NE Liberal Ks.	TRUCK NO. 3315/5303	RECEIVED BY <i>Tim Baker</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
				125 cf 60/40 Pozmix							
504-043	516.00272	2	B	Premium Cement	75	sk			6.85	513.75	
506-105	516.00286	2	B	Pozmix A	60	sk			3.91	195.50	
506-121	516.00259	2	B	Halliburton Gel 2% allowed	2	sk				NC	
506-277	516.00259	2	B	Halliburton Gel 4% added	4	sk			13.75	55.00	
RECEIVED STATE CORPORATION COMMISSION MAR 22 1991 CONSERVATION DIVISION Wichita, Kansas											
500-307		2	B	Mileage Surcharge	262.03				.10	26.20	
				Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES				
				SERVICE CHARGE ON MATERIALS RETURNED			CU. FEET				
500-207		2	B	SERVICE CHARGE			CU. FEET	133	1.10	146.30	
500-306		2	B	Mileage Charge	1125	67	262.03		.75	196.52	
No. B907021		CARRY FORWARD TO INVOICE					SUB-TOTAL		1125.07		

DISTRICT Liberal KS

DATE 1-6-90

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Exeter Dis 2 PAM Pet Management (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 2 LEASE Southwest College SEC. 19 TWP. 31S RANGE 31W

FIELD COUNTY Sevier STATE KS OWNED BY PAM Pet Management

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME TYPE FORMATION THICKNESS FROM TO PACKER: TYPE SET AT TOTAL DEPTH 5600 MUD WEIGHT 9.0 BORE HOLE 7 7/8 INITIAL PROD: OIL BPD, H2O BPD, GAS MCF PRESENT PROD: OIL BPD, H2O BPD, GAS MCF

Table with columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I. Rows include CASING, LINER, TUBING, OPEN HOLE, PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Handwritten notes: 1530 44 50 sks, 750 FT 40 sks, 40 FT 10 sks, PTA 12.5 sk, 60/40 Poz mix at 13.2 lb/gal, Mouschale 10 sk, Rat hole 15 sk

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. 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... 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... 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 product, supplies or materials... 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. e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well... 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 changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

MAR 22 1991

CONSERVATION DIVISION

SIGNED Lewis Ledbetter DATE 1-6-90 TIME 1530 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.

FIELD OFFICE

WELL DATA

FIELD 19 TWP 31S RNG 31W COUNTY Seward STATE KS

FORMATION NAME, THICKNESS, INITIAL PROD., PRESENT PROD., COMPLETION DATE, PACKER TYPE, BOTTOM HOLE TEMP., MISC. DATA

Table with columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAXIMUM PSI ALLOWABLE. Includes data for CASING, LINER, OPEN HOLE, PERFORATIONS.

JOB DATA

Table with columns: CALLED OUT, ON LOCATION, JOB STARTED, JOB COMPLETED. Includes DATE and TIME for each.

TOOLS AND ACCESSORIES

Table with columns: TYPE AND SIZE, QTY., MAKE. Lists items like FLOAT COLLAR, GUIDE SHOE, CENTRALIZERS, etc.

PERSONNEL AND SERVICE UNITS

Table with columns: NAME, UNIT NO. & TYPE, LOCATION. Lists personnel like T Bohannon, Q Crist, Craven.

MATERIALS

Form with various material type fields: TREAT. FLUID, DISPL. FLUID, PROP. TYPE, ACID TYPE, SURFACTANT TYPE, etc.

DEPARTMENT: Cement. DESCRIPTION OF JOB. CUSTOMER REPRESENTATIVE: X Lewis Lebbetter. HALLIBURTON OPERATOR: T Bohannon.

CEMENT DATA

Table with columns: STAGE, NUMBER OF SACKS, CEMENT, BRAND, BULK SACKED, ADDITIVES, YIELD CU.FT./SK., MIXED LBS./GAL.

PRESSURES IN PSI

SUMMARY

VOLUMES

Form with fields: CIRCULATING, BREAKDOWN, AVERAGE, SHUT-IN, ORDERED, TREATING, FEET.

Form with fields: PRESLUSH, LOAD & BKDN, TREATMENT, CEMENT SLURRY, TOTAL VOLUME.

RECEIVED STATE CORPORATION COMMISSION

MAR 22 1991

CONSERVATION DIVISION Wichita, Kansas

CUSTOMER: EXETER 2, PHM EST, WKS 51, LEASE: Southwest College, WELL NO., JOB TYPE, DATE: 1-6-90

JOB LOG

WELL NO. Extrac #2 P4M Pct Mary PAGE NO. 1

FORM 2013 R-2

JOB TYPE _____ DATE 1-6-90

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	12:05							ORIGINAL
	15:30							Call out Ready 16:00 ON LOC Rig lay down DP
	17:10	4						Start Plug Set at 1530 FT
	17:35		16.7				100	50 sk 60% Poz 13.2 gal 10 H ₂ O / cmt / 3.5 H ₂ O / 15 mod
	18:30	4					25	Set 2 Plug set at 750 in S.P.
	18:45		13.3					40 sk 60% Poz 10 H ₂ O / cmt / 3.5 H ₂ O / 5 mod
	19:30	2					50	Set 3 Plug at 40 FT below surface
	19:40		3.3					10 sk 60% Poz
	20:10							Rig Pull mousehole & Rat Set cmt " " "
	20:30							Job Completed
								125 sk Set 4 Plugs w 60% Poz 6% Gel 1530 FT 50 sk 750 FT 40 sk 40 FT 10 sk Mousehole 10 sk Rat hole 15 sk
								RECEIVED STATE COMMISSION MAR 22 1991 CONSERVATION DIVISION Wichita, Kansas
								Thank You Tim & Crew