

ORIGINAL

SIDE ONE

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

API NO. 15- 175-21139

County Seward

NW SE SE Sec. 22 Twp. 31S Rge. 32 XX East West

990 Ft. North from Southeast Corner of Section

990 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

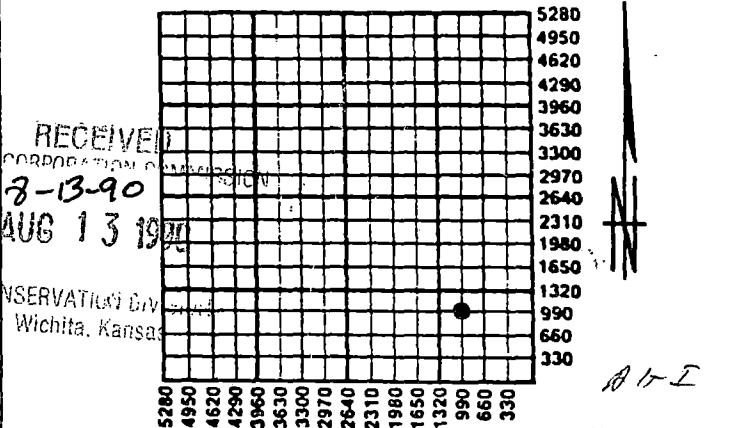
Lease Name R.M. Burnham Unit Well # 22-1

Field Name Wildcat

Producing Formation Morrow

Elevation: Ground 2854' KB 2863.5'

Total Depth 5800' PBTD 5728'



Amount of Surface Pipe Set and Cemented at 1709 Feet

Multiple Stage Cementing Collar Used? Yes XX No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Operator: License # 4742

Name: Texaco Inc. for Texaco Prod

Address: Inc. P.O. Box 2700

City/State/Zip Pampa, Texas 79066-2700

Purchaser: Texaco Trading & Transportation

Operator Contact Person: J. M. Barnum

Phone (806) 665-1876

Contractor: Name: Murfin Drilling Co.

License: 6033

Wellsite Geologist: None

Designate Type of Completion

XX New Well _____ Re-Entry _____ Workover

XX 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:

XX Mud Rotary _____ Air Rotary _____ Cable

4-17-90 4-26-90 6-1-90

Spud Date Date Reached TD Completion Date

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 [Signature] Title Area Manager Date 8-10-90

Subscribed and sworn to before me this 10th day of August, 1990.

Notary Public [Signature]

Date Commission Expires 2-23-91

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)

11/26

JAN 1990

SIDE TWO

Operator Name Texaco Inc. for Texaco Lease Name R.M. Burnham Unit Well # 22-1
 Producing Inc. East County Seward
 Sec. 22 Twp. 31S Rge. 32 West

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)	<p style="text-align: center;">Formation Description</p> <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample Name _____ Top _____ Bottom _____ (See Attached)
---	--

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
Conductor	24"	20	---	40'	---	40	---
Surface	12-1/4	8-5/8	24	1709	(see attached)		
Production	7-7/8	4-1/2	10.5	5799	(see attached)		

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	5433'-5440'	1360 gal 15% HCL w/460	
4	5447'-5457'	gal methanol, 47700 gal	
		foam, 60000# 20/40 sand &	
		25000# 12/20 sand	
4	5526'-5528' (see attached)	1000 gal 15% HCL & 39000	
4	5544'-5548'	gal foam w/48000# 20/40	
		sand	

TUBING RECORD	Size 2 3/8"	Set At 5368'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First Production 5-23-90 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil	Bbls. 25.0	Gas	Mcf TSTM	Water	Bbls. 0.0	Gas-Oil Ratio	Gravity 36
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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 Commingled

Other (Specify) _____

Production Interval _____

Baker 4-1/2" Model "C" retrievable bridge plug set @ 5459'

ORIGINAL

R. M. Burnham Unit Well No. 22-1

API# 15-175-21139
Section 22-T31S-R32W
Seward County, Kansas

Surface Casing Cement - Halliburton Invoice #918247

500 sacks Halliburton Lite, 1/4# flocele/sack and 2% CC
100 sacks class "C", 1/4# flocele/sack and 3% CC

Production Casing Cement - Dowell Schlumberger Invoice #03-12-2546

1st stage - 450 sacks 50/50 pozmix, 2% gel, 3% KCL, .75 D-60
2nd stage - 1350 sacks 35/65 pozmix, 6% gel, 1-1/4# D-29, followed
by 50 sacks class "H"

Formation Description

<u>Name</u>	<u>Top</u>	<u>Bottom</u>
Hollenberg	2624'	2644'
Harrington	2644'	2673'
Krider	2673'	2727'
Winfield	2727'	3027'
Council Grove	3027'	3730'
Topeka	3730'	4215'
Base Heebner	4215'	4224'
Toronto	4224'	4314'
Lansing	4314'	
Marmaton	4942'	5240'
Atoka	5240'	5430'
Morrow	5430'	5591'
Chester	5591'	5704'
St. Genevieve	5704'	

Note: Perforations 5526'-28' and 5544'-48' were tested 5-17-90 for 2150 MCFD. This zone is currently isolated by a Baker 4-1/2" Model "C" RBP set @ 5459'.

RECEIVED
STATE CORPORATION COMMISSION

AUG 13 1990

CONSERVATION DIVISION
Wichita, Kansas

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730							Time Check
	2200							Time Ready
	2130							Time check Big C in the Hole
								START Pumping Casing
	0123							Casing in Hole
	0127							Hook up To Circulate Casing
	0132							Circulate Casing w/ big Pump
	0134							Circulate Mud to Ground Level
	0143							Hook up To Pumps Track
	0147	6				200		Start Mixing Cement
	0216	6	182.5			125		START Tail Cement
	0221	6	23.5			175		Finish Mixing Cement
	0222		206.0	Total		175/6		Shut Down Deep Plug
	0224	6				75		Start Displacement
		4.14 Avg						wash Pumps & Lines
	0253		106.4			450/102		Plug Down
								Thanks For Calling
								Halliday Services
								Seniors
								Down & Crew
								RECEIVED
								STATE MINING & RECLAMATION COMMISSION
								AUG 13 1990
								WICHITA, KANSAS

CUSTOMER: **Messin, Dale**
 LEASE: **P.M. Burrenhard**
 WELL NO: **1-22**
 JOB TYPE: **8 1/2" Surface**
 DATE: **1-18-90**

WELL DATA

SEC. **22** TWP. **31^S** RNG. **32^W** COUNTY **SEWARD** STATE **KS**
 INFORMATION NAME _____ TYPE _____
 INFORMATION THICKNESS _____ FROM _____ TO _____
 TIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____
 GSENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____
 MPLETION DATE _____ MUD TYPE _____ MUD WT. _____
 CAKER TYPE _____ SET AT _____
 TTOM HOLE TEMP. _____ PRESSURE _____
 CO. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	214	8 5/8	128	1714	29
LINER						
TUBING						
OPEN HOLE			12 1/4	6 L	1709	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 4-18	DATE 4-18	DATE 4-19	DATE 4-19
TIME 1935	TIME 2130	TIME 0125	TIME 0253

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
Insert Float	1	
Fill Up Valve	1	
IDE SHOE	1	
NTRALIZERS		
TTOM PLUG		
P PLUG	1	
AD	1	
CKER	1	
BASKET	1	
HER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
D. Davis	33665	Liberal, KS
S9179		
T. Beal, Foret	52276	"
D4604	76900	"
P. Randle	59814	Hugoton, KS
41091	622	
B. Hill	1538	"
96581	6611	

MATERIALS

SAT. FLUID _____ DENSITY _____ LB/GAL. API _____
 IPL. FLUID _____ DENSITY _____ LB/GAL. API _____
 CP. TYPE _____ SIZE _____ LB. _____
 CP. TYPE _____ SIZE _____ LB. _____
 ID TYPE _____ GAL _____ % _____
 ID TYPE _____ GAL _____ % _____
 ID TYPE _____ GAL _____ % _____
 REACTANT TYPE _____ GAL _____ IN _____
 AGENT TYPE _____ GAL _____ IN _____
 UID LOSS ADD. TYPE _____ GAL-LB. _____ IN _____
 LLING AGENT TYPE _____ GAL-LB. _____ IN _____
 C. RED. AGENT TYPE _____ GAL-LB. _____ IN _____
 CAKER TYPE _____ GAL-LB. _____ IN _____
 CKING AGENT TYPE _____ GAL-LB. _____
 PPAC BALLS TYPE _____ QTY. _____
 HER _____
 HER _____

DEPARTMENT **Cement**
 DESCRIPTION OF JOB **8 1/2" SURFACE**
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE **X Tom Messin**
 HALLIBURTON OPERATOR **D. Davis** COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	YIELD CU.FT./SK.	MIXED LBS./GAL.
	500	Prem Plus	KTWT	2% CC 1/4# Floerale	2.05	1.2.3
	100	Prem Plus		3% CC 1/4# Floerale	1.32	14.8

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 AUG 13 1990
 CONSERVATION DIVISION
 Wichita, Kansas

PRESSURES IN PSI

SUMMARY

VOLUMES

CULATING _____ DISPLACEMENT _____ PRESFLUSH: BBL-GAL _____ TYPE _____
 SAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
 ENAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISPL: BBL-GAL **106.4**
 UT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL-GAL **246.0**
 CEMENT SLURRY: BBL-GAL _____ TOTAL VOLUME: BBL-GAL _____
 CEMENT LEFT IN PIPE _____
 REASON **Shoe Joint**

**BULK MATERIALS DELIVERY
AND
TICKET CONTINUATION**

HALLIBURTON SERVICES
Duncan, Oklahoma 73538
A Division of Halliburton Company

FOR INVOICE AND
TICKET NO. 818317

DATE 4-18-90	CUSTOMER ORDER NO.	WELL NO. AND FARM R. N. Burnham 22-1	COUNTY Seward	STATE KS
CHARGE TO Murfin Dirg. Co.		OWNER Texaco Inc.	CONTRACTOR No. B837060	
MAILING ADDRESS		DELIVERED FROM Hugoton	LOCATION CODE 50335	PREPARED BY Rick Rawlins
CITY & STATE		DELIVERED TO Loc. NE/Liberal, KS	TRUCK NO.	RECEIVED BY <i>R. Rawlins</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT			
		L	D		QTY.	MEAS.	QTY.	MEAS.					
504-050	516.00265	2	B	Premium Plus Cement	100	sk			7.08	708	00		
504-120		2	B	Halliburton Light Cement	500	sk			6.29	3145	00		
507-210	890.50071	2	B	Vlocele blended k lb/sk	150	lb			1.23	184	50		
509-406	890.50812	2	B	Calcium Chloride blended W/500	12	sk			26.25	315	00		
CONSERVATION DIVISION Wichita, Kansas TOTAL WEIGHT AUG 13 1990													
Returned Mileage Charge		CONSERVATION DIVISION Wichita, Kansas TOTAL WEIGHT		LOADED MILES		TON MILES							
SERVICE CHARGE ON MATERIALS RETURNED						CU. FEET							
500-207		2	B	SERVICE CHARGE			CU. FEET	626	.95	592	80		
500-306		2	B	Mileage Charge	TOTAL WEIGHT	56620	LOADED MILES	40	TON MILES	132.4	.70	792	68
No. B 837060				CARRY FORWARD TO INVOICE				SUB-TOTAL		5737 98			

HALLIBURTON SERVICES

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ORIGINAL

ATTACH TO VOICE & TICKET NO. 9182147

FORM 1808 R-7

A Division of Halliburton Company

DISTRICT Liberal, KS

DATE 4-18-90

YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Museum Drilling Co (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1-22 LEASE R/M Burnham SEC. 22 TWP. 315 RANGE 32W

FIELD COUNTY Seward STATE K OWNED BY Texaco, Inc.

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME TYPE
FORMATION THICKNESS FROM TO
ACKER: TYPE SET AT
TOTAL DEPTH MUD WEIGHT
CORE HOLE
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

Carried 8 3/8 SURFACE IN 500 SK Perm Plus LTWT 2% CC 1/4 # Floccle
100 SK Perm Plus 3% CC 1/4 # Floccle

Discontinue to Water

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.
b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies...

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...

- 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...
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 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.
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.

AUG 13 1990

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

SIGNED [Signature] CUSTOMER

DATE

TIME A.M. P.M.

I 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.

HALLIBURTON SERVICES

Duncan, Oklahoma 73168

A Division of Halliburton Company

ORIGINAL

FORM 1905 R-11

WELL NO. - FARM OR LEASE NAME 22-1 RM Bumban		COUNTY Seward	STATE Ks	CITY / OFFSHORE LOCATION	DATE 4-18-90
CHARGE TO Murphy Dalg. Co.		OWNER Texaco Inc	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 Murphy Dalg.		CONTRACTOR Murphy Dalg.	LOCATION 1 Ligeon, Ks		CODE 50340
CITY, STATE, ZIP		SHIPPED VIA Huaco	FREIGHT CHARGES PPD <input type="checkbox"/> COLLECT <input type="checkbox"/>		LOCATION 2 Houston, Ks
WELL TYPE 02	WELL CATEGORY 03	WELL PERMIT NO.	DELIVERED TO Loc	LOCATION 3	
TYPE AND PURPOSE OF JOB OID 8 1/2 SREICE		ORDER NO. B- 837060		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 such 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	25	miles			2.20	55.00
001-016		1		Pump charge	1709	FT				887.00
330-018		1		5w Tap Plug	1	Ech	8 1/4		100.00	100.00
12 A	825-217	1		Guide shoe 'Bog'	1	Ech	8 1/4		188.00	188.00
24 A	815-19502	1		Insert Float	1				171.00	171.00
27	815-19414	1		Fillings	1				29.00	29.00
40	807-93059	1		Centralizer's	3				53.00	159.00
370	800-91884	1		Cement Bucket	1				122.00	122.00

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AUG 13 1990
CONCRETE DIVISION
with It. Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B- 837060 5737.98

WAS JOB SATISFACTORILY COMPLETED? _____
 WAS OPERATION OF EQUIPMENT SATISFACTORY? _____
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____
 X **Tom Heskett**
 CUSTOMER OR HIS AGENT (PLEASE PRINT)
 X **Tom Heskett**

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.

Dennis Laine
 HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

SUB TOTAL **7448.98**
 APPLICABLE TAXES WILL BE ADDED ON INVOICE.

No 207



REMIT TO: P O BOX 898788 DALLAS TX 75389-0788

ORIGINAL INVOICE

312

25336
MURFIN DRILLING COMPANY
SUITE 300
56 N WATER
WICHITA KS 67202

INVOICE DATE
04/27/90

1

INVOICE NUMBER
03-12-2546

TYPE SERVICE
CEMENTING
CEMENT PRODUCTIO

WELL NAME / JOB SITE	STATE	COUNTY / CITY	SERVICE FROM LOCATION	SHIPPED VIA	CUSTOMER P.O. NO./REF.
H. BURNHAM 22-1	KS	SEWARD	ULYSSES KS	DS	
LOCATION / DEPT. ADDRESS	DATE OF SERVICE ORDER	CUSTOMER OR AUTHORIZED REPRESENTATIVE			
EC 22-31S-32W	04/27/90	TOM HESKETT			

ITEM CODE	DESCRIPTION	UOH	QTY	UNIT PRICE	AMOUNT
048218001	CASING CEMENTR BELOW 5000 FT	FT	867	.1500	121.05
048218000	CASING CENTR 5000-6999 FT.	8HR	1	1,246.0000	1,246.00
048016000	CEMENT PUMPER-PER ADDL STAGE	8HR	1	920.0000	920.00
059200002	MILEAGE, ALL OTHER EQUIPMENT	MI	48	2.4000	115.20
059697000	PACR TREAT ANALYSIS RECORDER	JOB	1	110.0000	110.00
049102000	TRANSPORTATION CHHT TON MILE	MI	1837	.8000	1,469.60
049100000	SERVICE CHG CEMENT MATL LAND	CFT	893	1.0800	964.44
040015000	D909, CEMENT CLASS H	CFT	503	6.8500	3,445.55
045000000	D35, LITEPOZ 3 EXTENDER	CFT	347	2.3000	798.10
045014050	D20, BENTONITE EXTENDER	LBS	2583	.1300	335.79
067011000	M117, POTASSIUM CHLORIDE	LBS	647	.2400	155.28
044003025	D29, CELLOPHANE FLAKES	LBS	88	1.3700	120.56
044002050	D60, FLAC FLUID LOSS ADDITIV	LBS	284	6.7000	1,902.80
100203000	D827, CHEMICAL WASH CW100	BBL	24	31.3500	752.40
050101044	SHOE CEM TYPE GUIDE 4-1/2"	EA	1	105.0000	105.00
052004044	COLLAR DRF FILL AL 4-1/2"	EA	1	385.0000	385.00
054001044	COLLAR 2 STG CEM 4-1/2"	EA	1	2,595.0000	2,595.00
056011044	CENTR REG 4-1/2, B DIA 7-3/4"	EA	10	48.0000	480.00
056014044	RING STOP HAMMER 4-1/2"	EA	1	16.0000	16.00
057499001	K232, THD LKG COMPOUND KIT	EA	2	22.0000	44.00
	DISCOUNT - MATERIAL				4,342.84-
	DISCOUNT - SERVICE				1,929.05-
	SUB TOTAL --				9,809.88
M C	STATE TAX ON			6,792.64	288.69
M Q C	LOCAL TAX ON			6,792.64	67.93
	AMOUNT DUE --				10,166.50

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STATE CORPORATION

AUG 13 1990

CONSERVATION DIVISION
Wichita, Kansas

Larry A. Kolstad
G A KOLSTAD

WITH QUESTIONS CALL 316-356-1272
FEDERAL TAX ID # 38-239-7173
TERMS - NET 30 DAYS DUE ON OR BEFORE MAY 27, 1990

THANK YOU. WE APPRECIATE YOUR BUSINESS.

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 02-12-2546 DATE: 4-27-90
 STAGE: 2nd DISTRICT: 11111111

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. PM Currier #22-1 LOCATION (LEGAL) 522-22-24-22 RIG NAME: Murphy Drilling #122
 FIELD-POOL St Louis FORMATION Chardaa WELL DATA: BIT SIZE 8 1/2 CSG/Liner Size 8 1/2 BOT/OM TOP
 COUNTY/PARISH Southern STATE TX API. NO. TOTAL DEPTH 2007 WEIGHT 5
 NAME T. J. ... MUD TYPE GRADE MUD DENSITY 11.5 MUD VISC. Disp. Capacity 97

ADDRESS ZIP CODE SPECIAL INSTRUCTIONS 2nd stage 4th casing

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE 3836 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT 2150 PSI BUMP PLUG TO 2150 PSI
 ROTATE RPM RECIPROCATE FT No. of Centralizers 12

ARRIVE ON LOCATION TIME: 17:00 DATE: 7-7-90 LEFT LOCATION TIME: 17:00 DATE: 7-7-90

TIME	PRESSURE		VOLUME PUMPED bbl		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR O.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
0001 to 2400											
1529	250	12			4 1/2						
1531	230	122			4 1/2						
1600	110	75			3						
1603	50				4 1/2						
1605	50	118			4 1/2						
1613	470		40	2							
1617	2150		48	2							
1618											

REMARKS: PREJOB SAFETY MEETING
stop out a short
start lead cement
start tail cement
start 2nd stage casing
check displacement
lower auto
bump closing plug
check float's holding
end 2nd stage a early job

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
			WATER	CEMENT	BBLS	DENSITY
1.	200	196	100%	0%	13.2	12.5
2.	100	134	100%	0%	13.3	16.4

AUG 13 1990

CONSERVATION DIVISION
Wichita, Kansas

BREAKDOWN FLUID TYPE: HESITATION SO. RUNNING SO. VOLUME: 40 DENSITY: 11.5 PRESSURE: MAX. 2150 MIN. 50
 CIRCULATION LOST: YES NO Cement Circulated To Surf. YES NO
 DISPLACEMENT VOL. 40 BBLS TYPE OF WELL: OIL STORAGE BRINE WATER
 MEASURED DISPLACEMENT 40 FT. WIRELINE GAS INJECTION WILDCAT
 PERFORATIONS: CUSTOMER REPRESENTATIVE: DS SUPERVISOR: DS

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 05-12-2546
 DATE: 6-27-90
 STAGE: 1st DISTRICT: Whissas, KS

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WELL NAME AND NO. <i>R 111 Burnham #22-1 Ser 22-31c-32c</i>	LOCATION (LEGAL) <i>Sec 22-31c-32c</i>	RIG NAME <i>Murphy Drilling #22</i>
FIELD-POOL <i>St Louis</i>	FORMATION <i>choctaw</i>	WELL DATA: BIT SIZE, CSO/Liner Size, TOTAL DEPTH, WEIGHT, etc.
COUNTY/PARISH <i>Seward</i>	STATE <i>Ks</i>	APL. NO.
NAME <i>T. J. ...</i>	AND	ADDRESS
SPECIAL INSTRUCTIONS <i>Finish equipment & materials to cement 2-stage 4 1/2 casing long string 1st stage</i>		NOTE: Include Footage From Ground Level To Head In Disp. Capacity

IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO	LIFT PRESSURE <i>3836</i> PSI	CASING WEIGHT - SURFACE AREA (3.14 x R ²)
PRESSURE LIMIT PSI	BUMP PLUG TO <i>1720</i> PSI	ROTATE RPM RECIPROCATE <i>15</i> FT No. of Centralizers <i>17</i>
Head & Plugs	<input type="checkbox"/> TBG <input type="checkbox"/> D.P.	SQUEEZE JOB
<input type="checkbox"/> Double <input type="checkbox"/> Single <input type="checkbox"/> Swage <input type="checkbox"/> Knockoff	SIZE WEIGHT GRADE THREAD	TUBING VOLUME Bbls
TOP OR QW	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL Bbls
BOT OR QW	DEPTH	TOTAL Bbls
ANNUAL VOLUME Bbls		

TIME	PRESSURE		VOLUME PUMPED bbl		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
0001 to 2400											
10:36	1980					112.0					
10:43	50	24			6	112.0					
10:48	570	101			6	14.2					
11:06	100										
11:09	50	92			6	112.0					
11:16	120	45			3	112.0					
11:17	160	52			6	mud					
11:26	760				3	mud					
11:30	1720	92			3	mud					
11:34	60										
11:50	710					mud					

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			WATER	CEMENT	ADDITIVES	FLUID	BBLs	DENSITY
1.	450	1.26	Water	2% gel	3% KCl	75% WOODS	101	14.2
2.								
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.	MIN.
<input type="checkbox"/> HESITATION SO.	<input type="checkbox"/> RUNNING SO.	CIRCULATION LOST	<input type="checkbox"/> YES <input type="checkbox"/> NO	Cement Circulated To Surf.	<input type="checkbox"/> YES <input type="checkbox"/> NO
BREAKDOWN	PSI FINAL	PSI	DISPLACEMENT VOL.	Bbls	TYPE OF WELL
Washed Thru Perls	<input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT	<input type="checkbox"/> WIRELINE
PERFORATIONS	CUSTOMER REPRESENTATIVE		The		