

# ORIGINAL

SIDE ONE

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

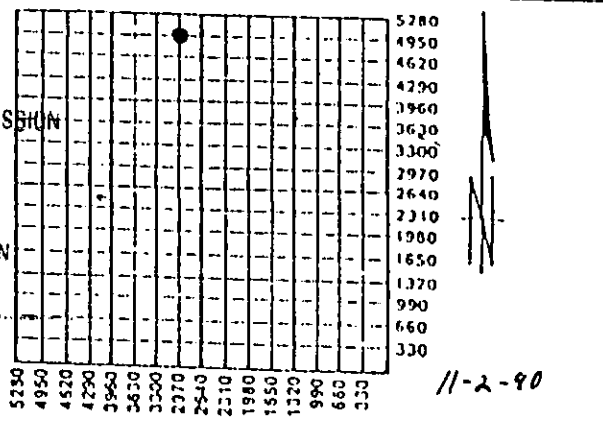
Operator: License # 5952  
 Name: Amoco Production Company  
 Address: P.O. Box 800, Rm. 1833  
 City/State/Zip: Denver, CO 80201  
 Purchaser: \_\_\_\_\_  
 Operator Contact Person: J. A. Victor  
 Phone (303) 830-4009  
 Contractor: Name: Exeter Drilling  
 License: 3098

Wellsite Geologist: \_\_\_\_\_  
 Designate type of completion:  
 New Well     Re-Entry     Workover  
 Oil             SWD             Temp. Abd.  
 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  
9/23/89            10/14/89            2/9/90  
 Spud Date            Date Reached ID            Completion Date

API NO. 15- 071-20478-0000  
 County Greeley  
NE NE NW Sec. 26 Twp. 18 Rge. 43  East West  
4950 ft. North from Southeast Corner of Section  
12970 ft. West from Southeast Corner of Section  
 (NOTE: Locate well in section plat below.)  
 Lease Name Dittmer Well # 1  
 Field Name Wildcat  
 Producing Formation Morrow  
 Elevation: Ground 3885' KB 3897'  
 Total Depth 5350' PBID 5258'

RECEIVED  
STATE CORPORATION COMMISSION  
JUL 9 1990  
7-9-90  
CONSERVATION DIVISION  
Wichita, Kansas



Amount of Surface Pipe Set and Cemented at 502 feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set ≈ 1520 feet  
 If Alternate II completion, cement circulated from ≈ 1520  
 feet depth to ⊙ w/ 385 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 my 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 Cl Burton  
 Title SR Admin. Analyst Date 7/5/90  
 Subscribed and sworn to before me this 5th day of July, 1990.  
 Notary Public Julie A. Victor  
 Date Commission Expires 4/7/94

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Drillers Timelog Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other (Specify)

SIDE TWO

Operator Name Anoco Production Company Lease Name Dittmer Well # 1  
 Sec. 26 Twp. 18 Rge. 43  East County Greeley  
 West

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

Drill Stem Tests Taken (Attach Additional Sheets.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  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 (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Formation Description  <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Bottom</td> </tr> <tr> <td>Morrow</td> <td>5009'</td> <td></td> </tr> <tr> <td>Basal Upper Morrow</td> <td>5110'</td> <td></td> </tr> </table>	Name	Top	Bottom	Morrow	5009'		Basal Upper Morrow	5110'	
Name	Top	Bottom								
Morrow	5009'									
Basal Upper Morrow	5110'									

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#	502'	Lite C	150	2% CACL
					Premium C	125	2% CACL
Production	7-7/8"	5-1/2"	15.5#	5340'	Standard A	325	Flocell
					Lite A	335	Flocell
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
4 JSPF	5110-5116'			Cement squeeze with 75 sx Class H Dowell Neat and 50 sx Class H Dowell Neat		5110-5120	
TUBING RECORD				Liner Run			
Size <u>None</u> Set At _____ Packer At _____				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
SI-Temp. Abandoned							
Estimated Production Per 24 Hours		Oil 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  Perforation  Dually Completed  Coningled

Other (Specify) \_\_\_\_\_

Production Interval N/A - Temp. Abandoned

2570



# ORIGINAL

## TICKET

PAGE 1 OF \_\_\_\_\_ PAGES

**HALLIBURTON SERVICES**  
Duncan, Oklahoma 73538

NO. 818026-0

A Division of Halliburton Company

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME <b>1 DITTMER</b>		COUNTY <b>C-KEELEY</b>	STATE <b>KS</b>	CITY / OFFSHORE LOCATION	DATE <b>9-23-89</b>	
CHARGE TO <b>EXETER</b>		OWNER <b>EXETER 2</b>		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 <b>EXETER 2</b>		LOCATION <b>1</b>	CODE	
CITY, STATE, ZIP		SHIPPED VIA <b>Truck</b>	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		LOCATION <b>2</b>	CODE
WELL TYPE <b>01</b>	WELL CATEGORY <b>03</b>	WELL PERMIT NO.	DELIVERED TO <b>Loc</b>		LOCATION <b>3</b>	CODE
TYPE AND PURPOSE OF JOB <b>010</b>		<b>B-814877</b>	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				MILEAGE	60				2.20	132.00
001-016				PUMP CHARGE	503				0.95	477.65
030-503				LA-10 PLUC	1		8 1/2			58.00
OCT 31 1989										

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

**B-814877**

2618 5

WAS JOB SATISFACTORILY COMPLETED?

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.

3284 1

WAS OPERATION OF EQUIPMENT SATISFACTORY?

A A



ORIGINAL



HALLIBURTON SERVICES

FORM 1000 FI-7



A Division of Halliburton Company

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO.

818024

DISTRICT LIFE HALL

DATE 9-23-59

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

THE SAME AS AN INDEPENDENT CONTRACTOR TO: EYETE K (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE DITTMER SEC. 24 TWP. 18 RANGE 43

FIELD M.C COUNTY GREELEY 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 AT \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_ MUD WEIGHT \_\_\_\_\_  
BORE HOLE \_\_\_\_\_  
INITIAL PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF  
PRESENT PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW P.S.I.
CASING	N	24	8 1/2	150	503	
LINER						
TUBING						
OPEN HOLE			12 1/4 KH	502		SHOTS/FT
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE \_\_\_\_\_ TYPE \_\_\_\_\_ MATERIALS \_\_\_\_\_

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

Cont. 8 1/2" SURFACE WITH 150 SK H.C. 2% C.C. / ft  
1 1/2 SK STE 2% C.C. 1 1/2 FL.

DISP. WITH 2 1/2 GAL H<sub>2</sub>O

CUSTOMER OR HIS AGENT WARRANTS THE WELLS 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 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.

OCT 31 1959

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 unsoundness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton which, 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 shall be 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, and/or 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 of the kind, returned to the finding, 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

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME ON BEHALF OF THE CUSTOMER

ORIGINAL



**JOB SUMMARY**

HALLIBURTON DIVISION Wichita KS  
 HALLIBURTON LOCATION LHMAA CO

BILLED ON TICKET NO. 818024

WELL DATA  
 FIELD 24 TWP. 18 RNG. 43 COUNTY GREENE 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 \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		14 24	8 5/8	KB	503	
LINER						
TUBING						
OPEN HOLE			1 3/4	KA	502	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**JOB DATA**

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG	1	
HEAD		
PACKER		
OTHER		

CALLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
9-23-89	9-23-89	9-23-89	9-23-89
TIME 1:00	TIME 5:00	TIME 9:10	TIME 10:00

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
D. KNIEGEH.	5063	LHMAA CO.
D. McENTHYE	1542	
C. H. H. H.	37459	

**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  
 HE 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.  
 PERFFAC BALLS TYPE \_\_\_\_\_ QTY.  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

DEPARTMENT Gen  
 DESCRIPTION OF JOB FT  
 JOB DONE THRU: TUBING  CASING  ANNULUS  YBG./ANN.   
 CUSTOMER REPRESENTATIVE X R.E. Brown  
 HALLIBURTON OPERATOR C. Ashby COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU. FT./SK.	MIXED LBS./GAL.
1	150	H.L.C	C	280	C.C.	1/4 Fl.	1.69	13.1
2	112	STE		11	11		1.12	15.6

**PRESSURES IN PSI** \_\_\_\_\_ **SUMMARY** \_\_\_\_\_ **VOLUMES** \_\_\_\_\_

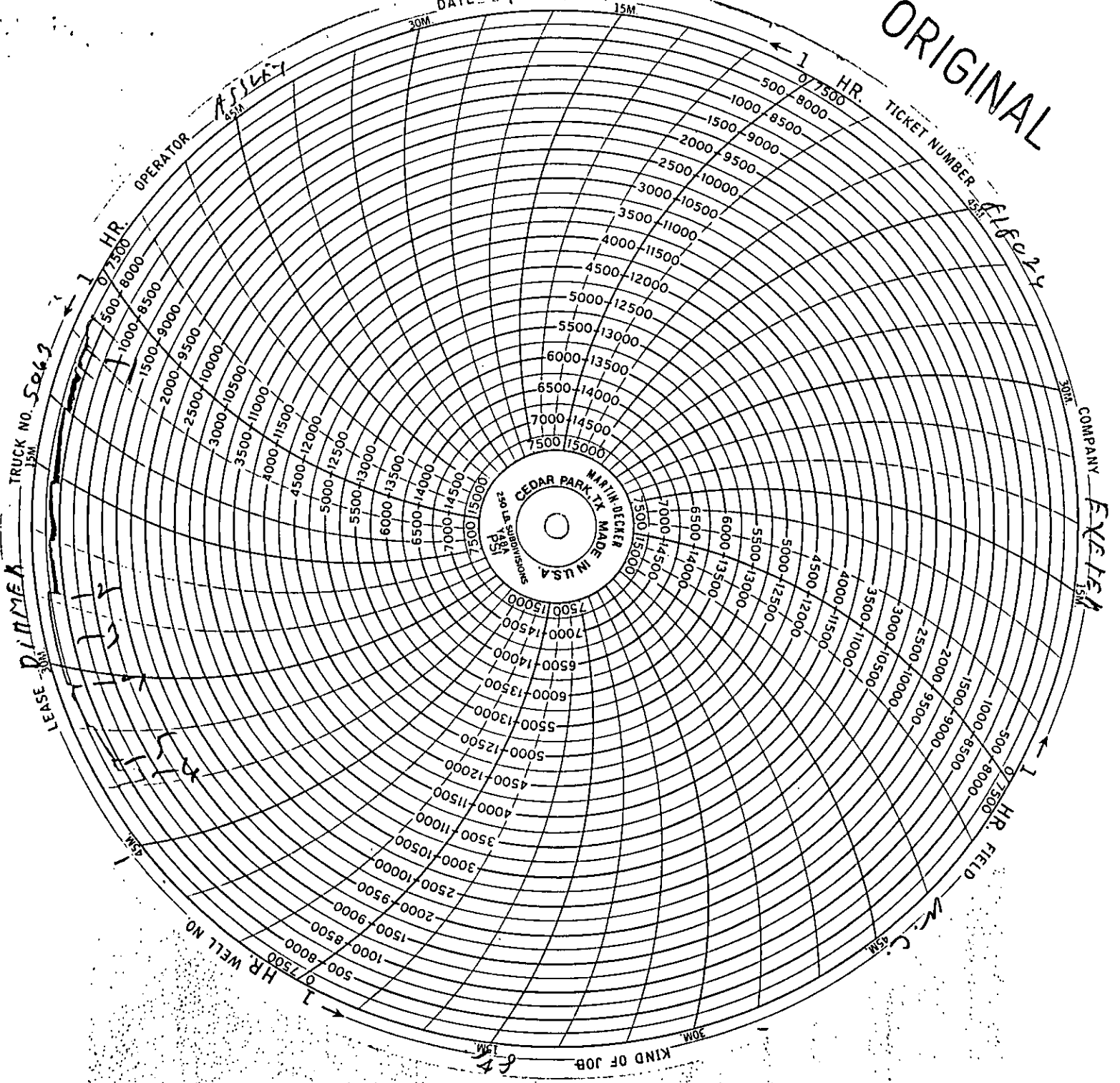
CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESURH: BDL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BDL.-GAL. \_\_\_\_\_ PAD: BDL.-GAL. \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BDL.-GAL. \_\_\_\_\_ DISPL: BDL.-GAL. 2.9  
 SHUT-IN INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BDL. 71  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ TOTAL VOLUME: BDL.-GAL. \_\_\_\_\_

**HYDRAULIC HORSEPOWER** \_\_\_\_\_ **REMARKS** \_\_\_\_\_  
**AVERAGE RATES IN BPM** \_\_\_\_\_

CUSTOMER LEWIS & CLARK  
 LEASE DITTMER  
 WELL NO. \_\_\_\_\_  
 JOB TYPE \_\_\_\_\_



ORIGINAL



OCT 31 1980







ORIGINAL



HALLIBURTON SERVICES

FORM 1008 R-7

A Division of Halliburton Company

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO. 818015

DISTRICT Liberal

DATE 10-13-89

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

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Amoco (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE DITmer SEC 26 TWP. 18 S RANGE 43 W

FIELD COUNTY Greeley STATE KS OWNED BY Amoco

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME TYPE FORMATION THICKNESS FROM TO PACKER: TYPE SET AT TOTAL DEPTH MUD WEIGHT BORE 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 (15.5, 5 1/2, KB, 5353.78), LINER, TUBING, OPEN HOLE, PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED Cement 5 1/2 csg in 2 stages with 2 75 sk std, .5% Hald 322, 1/4" 1 1/2 flocc 1st stage; 335 HLC, 1/4" 1/4 flocc; 50 std, .5% Hald 322, 1/4" sk flocc 2nd stage

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...
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...
d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials.
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 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.

OCT 31 1989

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

ORIGINAL

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# JOB SUMMARY

HALLIBURTON DIVISION Wichita  
 HALLIBURTON LOCATION Lamar

BILLED ON TICKET NO. 818015

CUSTOMER

Amoco

LEASE

O. Turner

WELL NO.

JOB TYPE

5 1/2 L.S

DATE

### WELL DATA

LD \_\_\_\_\_ SEC. 26 TWP. 18S RNG. 43W COUNTY Greene STATE Ks

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING			15.5	5 1/2	KB	5354	
LINER							
TUBING							
OPEN HOLE							SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

FORMATION THICKNESS FROM TO  
 VIAL PRODI OIL BPD. WATER BPD. GAS MCFD  
 ESSENT PRODI OIL BPD. WATER BPD. GAS MCFD  
 COMPLETION DATE MUD TYPE MUD WT.  
 CHECKER TYPE SET AT  
 BOTTOM HOLE TEMP. PRESSURE  
 C. DATA TOTAL DEPTH

### JOB DATA

TYPE AND SIZE	QTY.	MAKE	CALLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
COLLAR DU 5 1/2	1	Huwo	10-13	10-13	10-14	10-14
SHOE SS II 5 1/2	1	Huwo	TIME Noon	TIME 2:00	TIME 0400	TIME 0900
SHOE						
HYDRALIZERS 5-4 5 1/2	3	"				
TOP PLUG						
PLUG DU Plug Set + float	1	"				
NO Cement Basket	1	"				
CHEK FastGrip	1	"				
CHEK Latchdown Plug + bottle	1	"				

### TOOLS AND ACCESSORIES

NAME	UNIT NO. & TYPE	LOCATION
E Painter	44366	33669 Lamar, Co
R Taylor	D4033	0959 "
D Krige		5070 "
Jo Snowford		4669 "

### PERSONNEL AND SERVICE UNITS

MATERIALS

WATER FLUID DENSITY LB/GAL. API  
 PL. FLUID DENSITY LB/GAL. API  
 OP. TYPE SIZE LB.  
 OP. TYPE SIZE LB.  
 D TYPE GAL. %  
 D TYPE GAL. %  
 D TYPE GAL. %  
 DEFACANT TYPE GAL. IN  
 AGENT TYPE GAL. IN  
 MUD LOSS ADD. TYPE GAL.-LB. IN  
 FILLING AGENT TYPE GAL.-LB. IN  
 C. RED. AGENT TYPE GAL.-LB. IN  
 SAKER TYPE GAL.-LB. IN  
 DOCKING AGENT TYPE GAL.-LB.  
 OFF PAC BALLS TYPE QTY.  
 OTHER  
 OTHER

DEPARTMENT CMT  
 DESCRIPTION OF JOB Cement 5 1/2 L.S

JOB DONE THRU: TUBING  CASING  ANNULUS  TGG./ANN.

CUSTOMER REPRESENTATIVE X  
 HALLIBURTON OPERATOR E Painter  
 COPIES REQUESTED 1

### CEMENT DATA

YAGE	NUMBER OF BAGS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	275	std		SW	B	.5% Holo 322, 1/4 lb sk flocc	1.15	15.6
2	335	HLC	std	SW	B	1/4 flocc	1.84	12.7
3	50	std		SW	B	.5% Holo 322 1/4 lb sk flocc	1.18	15.6

### PRESSURES IN PSI

### SUMMARY

UGT 31 VOLUMES

CULATING DISPLACEMENT PRES LUSHI BBL.-GAL. TYPE  
 SAKDOWN MAXIMUM LOAD & BKDN: BBL.-GAL. PADI BBL.-GAL.  
 ERAGE FRACTURE GRADIENT TREATMENT: BBL.-GAL. DISPL: BBL.-GAL. 86.9179  
 UT-INI INSTANT 9-MIN. 15-MIN. CEMENT SLURRY: BBL.-GAL. 584 (110-110.5)  
 HYDRAULIC HORSEPOWER  
 DERED AVAILABLE USED  
 AVERAGE RATES IN BPM  
 TOTAL VOLUME: BBL.-GAL.  
 REMARKS

HALLIBURTON SERVICES  
JOB LOG

WELL NO. 1 LEASE DITmer TICKET NO. 818015  
CUSTOMER Amoro PAGE NO. 1  
JOB TYPE 5 1/2 L.S DATE 10-13-89

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (DBL GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2045	10-13-89						On Loc with Float Equip
	2145							Trucks on loc - rig laying down pipe
	0015	10-14-89						Start casing with float shoe -
								Latch down baffles 2 <sup>nd</sup> collar
								centralizers on middle 1 <sup>st</sup> joint, 5 <sup>th</sup> & 6 <sup>th</sup> collar
	0400							DU tool with 38 joints on top
								hook up to circulate casing down
	0615	4			✓		200	Start Cement 275 sks STD cement
	0630	4	58		✓		200	Cement mixed -
								Wash pumps & Line - Drop plug
	0635	5			✓		100	Start Disp 86.9 gal water - 38.4 gal fluid
	0653	5	125		✓		700	Plug landed go 500 PSI over to 1200 PSI
								Latch down plug holders
	0715	min						Drop freefall plug
	0730	"	1		✓		1350	Press up on DU till open
								Rig up to circulate thru DU
	0805	7			✓		100	Rig up to Cement - Start Cement 335'!
	0831	7	110		✓		100	HCL mixed - Start STD (50 sks)
	"	2			✓		100	circulating cement
	0836	2	10.5		✓		100	STD mixed -
								Wash pumps & Line - Drop plug
	0840	4			✓			Start Disp
	0849	4	38.5		✓		1200	Plug landed - DU closed & holding
								Thanks Col Aguirre
								Oct 31 1989 Earl Richard Derrick 100.