

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

Operator: License # 4964  
Name DCF Exploration  
Address 940 Wadsworth Blvd., Suite 100  
City/State/Zip Lakewood, Colorado 80215

Purchaser Mobil Oil Corp.

Operator Contact Person Doug Frickey  
Phone 303-232-5011

Contractor: License # 5302  
Name Red Tiger Drilling Company

Wellsite Geologist Mr. Ron Nelson  
Phone (913) 628-3449

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SMD  Temp Abd  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply, etc.)

If **OWWO**: old well info as follows:  
Operator  
Well Name  
Comp. Date  
Old Total Depth

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable

1/16/88 1/24/88 2-10-88  
Spud Date Date Reached TD Completion Date

3,800'  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 220.96 feet

Multiple Stage Cementing Collar Used? Yes No  
If yes, show depth set feet

If alternate 2 completion, cement circulated from feet depth to w/SX cmt

Cement Company Name  
Invoice #

API No. 15-065-22,432 -00-00  
County Graham  
NW NW SE 7 8S 23 East  
Sec Twp Rge X West

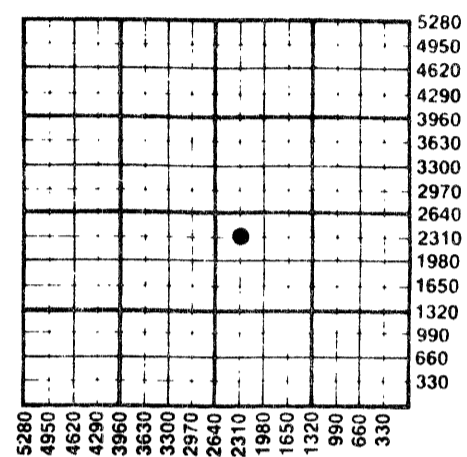
2310 Ft North from Southeast Corner of Section  
2310 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Lease Name McVey-Ross "A" Well # 2  
Field Name Gettysburg

Producing Formation Lansing/Kansas City

Elevation: Ground 2297' 2302' KB

Section Plat



STATE CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
Wichita, Kansas  
2-18-1989

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal  
Docket # Repressuring

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:  
Division of Water Resources Permit #

Groundwater Ft North from Southeast Corner  
(Well) Ft West from Southeast Corner of  
Sec Twp Rge East West

X Surface Water 5000 Ft North from Southeast Corner  
(Stream, pond etc) 500 Ft West from Southeast Corner  
Sec 17 Twp 8S Rge 23 East X West

Ralph Bethel, Hill City, Ks. 67642  
Other (explain)  
(purchased from city, R.W.D. #)

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. 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 Douglas C. Frickey  
Title President Date 2/18/88

Subscribed and sworn to before me this 16th day of February 1988  
Notary Public  
Date Commission Expires 10/02/90

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)

Sec. 7, Twp. 8, Rge. 23

**SIDE TWO**

Operator Name DCF Exploration Lease Name McVey-Ross 'A' Well # 2

Sec. 7 Twp. 8S Rge. 23W  East  West County Graham

**WELL LOG**

**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  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

Formation Description  
 Log  Sample

<u>DST #1</u> Interval: 3656-3710 Lansing "H" & "I" OPEN: 30-45-30-45 RECOVERY: 1300' GIP 900' CGO 180' VHOCGM 120' MW IFP: 136-271 FFP: 368-486 ISIP: 819 FSIP: 781 HM: 1951-1922	<u>DST #2</u> Interval: 3696-3730 Lansing/KC "J" OPEN: 30-30-15-0 RECOVERY: 10' M W/OS & Gas Odor IFP: 58-58 FFP: 58-58 ISIP: -0- FSIP: None HM: 2060-2060
	<u>DST #3</u> Interval: 3729-3763 Lansing/KC "K" OPEN: 30-30-0-0 RECOVERY: 20' Mud IFP: 39-39 FFP: - - ISIP: 397 FSIP: - - HM: 1981-1893

Name	Top	Bottom
Anhydrite	1954	(+348)
Base/Anhydrite	1984	(+318)
Topeka	3304	(-1002)
Heebner	3510	(-1208)
Toronto	3541	(-1239)
Lansing	3553	(-1251)
Base/Kansas City	3762	(-1460)
RTD	3800	(-1498)
LTD	3803	(-1501)

<b>CASING RECORD</b> <input checked="" type="checkbox"/> New & <input checked="" 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#	227'	60/40 Poz	140	2% Gel 3%CC	
Production	7 7/8"	4 1/2"	10.5#	3,799'	HDL 60/40 Poz	310 130		
<b>PERFORATION RECORD</b>				<b>Acid, Fracture, Shot, Cement Squeeze Record</b>				
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth		
(4)	3679' thru 3685' Kansas City "H"			(500) gal. of 15% HCL Acid				
"	"			(1500) gal. of 20% HCL Acid				
<b>TUBING RECORD</b> Size 2 3/8" Set At 3760.40' packer at				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Date of First Production		Producing Method						
February 10, 1988		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....						
Estimated Production Per 24 Hours	Oil		Gas		Water		Gas-Oil Ratio	Gravity
	90	Bbls	-	MCF	0	Bbls	CFPB	41°

**METHOD OF COMPLETION**

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) .....  
 Used on Lease  Dually Completed  
 Commingled

..3679'-3685' (4SPF)  
 Kansas City "H" Zone  
 .....

TELEPHONE:

AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31

RUSSELL, KANSAS 67665

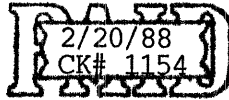
15-065-22432-00-00

TO: D C F Exploration  
940 Wadsworth Blvd. Suite 100  
Lakewood, Co. 80215

INVOICE NO. 50739  
PURCHASE ORDER NO.  
LEASE NAME McVey Ross A #2  
DATE Jan. 16, 1988

SERVICE AND MATERIALS AS FOLLOWS:

Common 84 sks @\$5.00  
Pozmix 56 sks @\$2.10  
Gel 3 sks. @\$6.75  
Chloride 4 sks. @\$20.00



\$ 420.00  
117.60  
20.25  
80.00

\$ 637.85

Handling 140 sks @\$0.75  
Mileage (40) @\$0.03¢ per sk per mi  
Surface  
Mi @\$1.00 pmp. trk.  
1 plug

105.00  
168.00  
360.00  
40.00  
40.00

713.00

Cement circ.

If account CURRENT 20% discount will  
be allowed ONLY if paid within 30 days  
from date of invoice.

Total

\$ 1,350.85

\$1,350.85 TOTAL  
\$ 270.17 20% DIS.  
\$1,080.68 TOTAL

THANK YOU

All Prices Are Net, Payable 20th of Month Following Date of Invoice. % of 1% Charged Thereafter

RECEIVED  
STATE CORPORATION COMMISSION

MAR 14 1988  
3-14-1988  
CONSERVATION DIVISION  
Wichita, Kansas

15-065-22432-00-00

Phone 913-483-2627, Russell, Kansas  
Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812  
Phone Ness City 913-798-3843

New

# ALLIED CEMENTING CO., INC.

N<sup>o</sup> 1369

Home Office P. O. Box 31

Russell, Kansas 67665

Date	1-16-88	Sec.	7	Twp.	8 <sup>s</sup>	Range	23 <sup>w</sup>	Called Out	9:45 A.M.	On Location	12:30 P.M.	Job Start	2:50 P.M.	Finish	3:15 P.M.
Lease	McVey-Ross "A" Well No. 2			Location				Hill City 4 1/2 W 1/2 N			County		Graham Ks.		
Contractor	Red Tigen Drilling Co.			Rig #8				Owner		Same					
Type Job	Set surface pipe														
Hole Size	12 1/4"			T.D.		232'									
Csg.	8 7/8"			Depth		227'									
Tbg. Size				Depth											
Drill Pipe				Depth											
Tool				Depth											
Cement Left in Csg.	15'			Shoe Joint											
Press Max.				Minimum		-									
Meas Line	X			Displace											
Perf.															

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To **DCF Exploration**  
 Street **940 Wadsworth Blvd - Suite 100**  
 City **Lakewood** State **Co. 80215**  
 The above was done to satisfaction and supervision of owner agent or contractor

Purchase Order No.  
 X **Darcy Drumm**

### CEMENT

Amount Ordered **140 sks 60/40 poz 2 bagel, 320 c.c.**  
 Consisting of  
 Common **84 sks @ 5.00/sk. 420.00**  
 Poz. Mix **56 sks @ 2.19/sk. 117.60**  
 Gel. **3 sks @ 6.25/sk. 20.25**  
 Chloride **4 sks @ 20.00/sk. 80.00**  
 Quickset

EQUIPMENT		
No.	Cementer	
Pumptrk 191	Helper	Gary H. Jim S.
Pumptrk	Cementer	
	Helper	
Bulktrk #60	Driver	Randy P.
Bulktrk	Driver	

Handling	<b>e 75¢/sk. (140 sks)</b>	<b>105.00</b>
Mileage	<b>e 034¢/sk./mi. (40 mi.)</b>	<b>168.00</b>
	<b>\$1350.85</b>	
	<b>- 270.17</b>	
	<b>\$1080.68</b>	
		<b>910.85</b>

DEPTH of Job		
Reference:		
#1	Cumpruck-surface	<b>\$360.00</b>
#8	1-8 7/8" surface plug	<b>40.00</b>
#14	mileage @ 1.00/mi.	<b>40.00</b>
	Sub Total	<b>\$440.00</b>
	Tax	
	Total	

Floating Equipment **Thanks**

Remarks: **Cement Circulated.**

RECEIVED  
STATE CORPORATION COMMISSION

MAR 14 1988  
3-14-1988  
CONSERVATION DIVISION  
Wichita, Kansas

**ORIGINAL INVOICE**

INVOICE



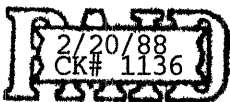
A DIVISION OF HALLIBURTON COMPANY

REMIT TO:  
P.O. BOX 651046  
DALLAS, TX 75265

15-065-22432-00-00

INVOICE NO.	DATE
613525	01/25/1988

WELL LEASE NO.	WELL LOCATION	STATE	WELL OWNER		
MCVEY ROSS A-2	GRAHAM	KS	DCF EXPLORATION		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
OBERLIN	RED TIGER	CEMENT PRODUCTION CASING	01/25/1988		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
210502	DOUG FRICKEY			COMPANY TRUCK	52604



D C F EXPLORATION  
8915 PRICKLY PEAR CIRCLE  
PARKER, CO 80134

DIRECT CORRESPONDENCE TO:  
SUITE 600  
COLORADO DERBY BUILDING  
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	40	MI	2.10	84.00
		1	UNT		
001-016	CEMENTING CASING PUMP CHARGE	3802	FT	967.20	967.20
		1	UNT		
030-016	TYPE SW ALUMINUM PLUG-TOP	4 1/2	IN	31.00	31.00
		1	EA		
12A	GUIDE SHOE - 4 1/2" 8RD THD.	1	EA	83.00	83.00
825.201					
24A	INSERT FLOAT VALVE - 4 1/2"	1	EA	69.00	69.00
815.19101					
27	FILL-UP UNIT 4 1/2"-5"	1	EA	27.50	27.50
815.19111					
40	CENTRALIZER 4-1/2" MODEL S-4	6	EA	41.00	246.00
807.93004					
320	CEMENT BASKET 4 1/2"	2	EA	85.00	170.00
800.8881					
018-317	SUPER FLUSH	500	GAL	1.50	750.00
504-308	STANDARD CEMENT	202	SK	6.75	1,363.50
506-105	POZMIX A	108	SK	3.50	378.00
506-121	HALLIBURTON-GEL 2%	6	SK	.00	N/C
507-277	HALLIBURTON-GEL BENTONITE	8	%	.74	229.40
		310	SK		
507-210	FLOCELE	78	LB	1.21	94.38
507-285	ECONOLITE	540	LB	.80	432.00
504-308	STANDARD CEMENT	78	SK	6.75	526.50
506-105	POZMIX A	52	SK	3.50	182.00
506-121	HALLIBURTON-GEL 2%	2	SK	.00	N/C
509-968	SALT	622	LB	.063	39.19
507-145	CFR-2	83	LB	3.70	307.10
507-970	D-AIR 1	33	LB	2.20	72.60
500-207	BULK SERVICE CHARGE	449	CFT	.95	426.55
500-306	MILEAGE	848.68	TMI	.70	594.08
509-968	SALT	150	LB	.063	9.45

RECEIVED

\*\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*\*

3-14-1988  
MAR 14 1988

INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF BILLING. IN THE EVENT OF 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, HALLIBURTON COMPANY SHALL BE ENTITLED TO THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE AFTER RECEIPT HEREIN 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 COSTS OF COLLECTION AND TO PAY ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.





15-065-22432-00-00

TICKET

HALLIBURTON SERVICES  
Duncan, Oklahoma 73536

NO. 613525-0

A Division of Halliburton Company

FORM 1908 R-11

WELL NO. - FARM OR LEASE NAME A-2 m <sup>2</sup> vey Ross		COUNTY Graham	STATE Ks.	CITY / OFFSHORE LOCATION	DATE 1-25-88	
CHARGE TO DCF Exploration		OWNER Same		TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
ADDRESS 8915 Prickley Pear Circle		CONTRACTOR Red Tiger Drng		LOCATION 1 Oberlin, Ks.	CODE 50329	
CITY, STATE, ZIP Parker, Co. 80134		SHIPPED VIA 4718 2591-50181	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		LOCATION 2	CODE
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO. B-710870	DELIVERED TO W Hill City, Ks.		LOCATION 3	CODE
TYPE AND PURPOSE OF JOB 035 Cement Prod. Csg.		ORDER NO.		REFERRAL LOCATION		

As consideration, the above-named Customer agrees to pay Halliburton in accordance 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 with respect 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 action of action (whether 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 20% for the cost of such items. In no event shall Halliburton be liable for special, incidental or 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 (2591)	65	Mi.			2.10	136	50
001-016		1		Pump Charge	3802	Ft.	8	hrs	967.20	467	20
030-016		1		Top Plug	1	ea	4 1/2	in.	31.00	31	00
12 A	825.201	1		Regular Guide Shoe	1	ea	4 1/2	in.	83.00	83	00
24 A	815.19101	1		Insert Float Valve	1	ea	4 1/2	in.	69.00	69	00
27	815.19111	1		Auto-Fill Assembly	1	ea	1	in.	27.50	27	50
40	807.93024	1		S-4 Centralizer	6	ea	4 1/2	in.	41.00	246	00
320	800-8881	1		Cement Basket	2	ea	4 1/2	in.	85.00	170	00
018-317		1		SuperFlush	500	gal			2.50	1250	00

THIS IS NOT AN INVOICE

RECEIVED  
STATE CORPORATION COMMISSION  
3-14-1988  
MAR 14 1988

GENERAL INVESTIGATION DIVISION  
Wichita, Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B-710870 4594 00

WAS JOB SATISFACTORILY COMPLETED? \_\_\_\_\_

WAS OPERATION OF EQUIPMENT SATISFACTORY? \_\_\_\_\_

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? \_\_\_\_\_

X Douglas C. Frickey  
CUSTOMER OR HIS AGENT (PLEASE PRINT)

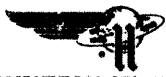
X Douglas C. Frickey  
CUSTOMER OR HIS AGENT (SIGNATURE)

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

[Signature]  
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL \_\_\_\_\_  
CUSTOMER

SUB TOTAL  
APPLICABLE TAXES WILL BE ADDED ON INVOICE.



HALLIBURTON SERVICES  
Duncan, Oklahoma 73838

A Division of Halliburton Company

# BULK MATERIALS DELIVERY AND TICKET CONTINUATION

15-065-22432-00-00

FOR INVOICE AND  
TICKET NO. 613525-0

DATE 1-25-88	CUSTOMER ORDER NO.	WELL NO. AND FARM A-2 mvey Ross	COUNTY Graham	STATE Ks
CHARGE TO DCF Exploration		OWNER DCF	CONTRACTOR Red Tiger	No. <b>B 710870</b>
MAILING ADDRESS 8915 Prickley Peear Circle		DELIVERED FROM Oberlin, Ks	LOCATION CODE 50329	PREPARED BY ylk/Hagan
CITY & STATE Parker, Colo 80134		DELIVERED TO NW/Hill City	TRUCK NO. 50181-4718	RECEIVED BY <i>Eddy Reynolds</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-308		1	B	Standard Cement	202	sk			6.75	1363	50
506-105		1	B	Pozmix "A"	108	sk			3.50	378	00
5006-121		1	B	Halliburton Gel Allowed 2% (6)							NC
507-277		1	B	Halliburton Gel Mixed 8% (24)	310	sk			.74	229	40
507-210		1	B	Floeele	78	lb			1.21	94	38
504-308		1	B	Standard Cementt	78	sk			6.75	526	50
506-105		1	B	Pozmix "A"	52	sk			3.50	182	00
506-121		1	B	Halliburton Gel Allowed 2% (2)							NC
509-968		1	B	<del>XXXX</del> Salt Granulated	622	lb			.063	39	19
507-145		1	B	CFR-2	83	lb			3.70	307	10
507-970		1	B	D-Air	33	lb			2.20	72	60
509-968		1	B	Salt Granulated	150	lb			.063	9	45

THIS IS NOT AN INVOICE

RECEIVED STATE CORPORATION COMMISSION MAR 14 1988 3-14-1988 CONSERVATION DIVISION Wichita, Kansas		Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES		
500-207	1 B	SERVICE CHARGE			CU. FEET		
500-306	1 B	Mileage Charge	42,434 TOTAL WEIGHT	65 LOADED MILES	1379.11 TON MILES	.95	426 55
No. <b>B 710870</b>		CARRY FORWARD TO INVOICE			SUB-TOTAL		4594 05

CUSTOMER





# JOB SUMMARY

HALLIBURTON DIVISION

Wichita, Ks.

15-065-22432-00-00

HALLIBURTON LOCATION

Oberlin, Ks.

BILLED ON TICKET NO.

613525-0

FIELD W Hill City, Ks. SEC. 7 TWP. 8<sup>s</sup> RING. 23<sup>w</sup> COUNTY Graham 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 3803'

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	10.5	4 1/2"	KB	3802'	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

### JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>1-24-88</u>	DATE <u>1-24-88</u>	DATE <u>1-25-88</u>	DATE <u>1-25-88</u>
TIME <u>1935</u>	TIME <u>2250</u>	TIME <u>0140</u>	TIME <u>0715</u>

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE <u>Reg. 4 1/2"</u>	<u>1ea.</u>	<u>Haico</u>
CENTRALIZERS <u>S-4 4 1/2"</u>	<u>6ea.</u>	<u>Haico</u>
BOTTOM PLUG <u>Cent. Bgkt. 4 1/2"</u>	<u>2ea.</u>	<u>Haico</u>
TOP PLUG <u>S-W 4 1/2"</u>	<u>1ea.</u>	<u>Haico</u>
HEAD <u>Insert Float 4 1/2"</u>	<u>1ea.</u>	<u>Haico</u>
PREWER <u>Auto-tillup 1"</u>	<u>1ea.</u>	<u>Haico</u>
OTHER		

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>E. Reynolds</u>	<u>47558</u>	<u>ROM HT-400</u>
<u>J. Alstrom</u>	<u>2591</u>	<u>Bm Oberlin, Ks.</u>
<u>R. Hagan</u>	<u>50181</u>	<u>Bm Oberlin, Ks.</u>
<u>K. Legg</u>	<u>4718</u>	<u>Bm Oberlin, Ks.</u>
<u>T.O. Garrison</u>	<u>Field Super.</u>	<u>Oberlin, Ks.</u>

### MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL.<sup>°</sup>API  
 DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL.<sup>°</sup>API  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN  
 NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN  
 FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 PERFFAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER 20bbl. 2% Saltwater  
 OTHER 500gal. Super Flush

DEPARTMENT Cementing  
 DESCRIPTION OF JOB Cement 4 1/2" Prod. String  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
 CUSTOMER REPRESENTATIVE X Duff C. Furdy  
 HALLIBURTON OPERATOR Eldon Reynolds COPIES REQUESTED \_\_\_\_\_

### CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>310</u>	<u>HDL</u>		<u>Std</u>		<u>1/4" Flocele/sk.</u>	<u>3.62</u>	<u>10.7</u>
	<u>130</u>	<u>60140</u>		<u>"</u>		<u>2% Gel-10% Salt-.75CFR2-.25D-Air</u>	<u>1.30</u>	<u>14.6</u>

### PRESSURES IN PSI

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
 BREAKDOWN STATE COMMISSION \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_  
 SHUT-IN: INSTANT \_\_\_\_\_ 15-MIN. \_\_\_\_\_  
 HYDRAULIC HORSEPOWER \_\_\_\_\_

### SUMMARY

PRESLUSH: BBL.-GAL. 20.0 + 12 TYPE 5/8" eter - Super Flush  
 LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. \_\_\_\_\_  
 CEMENT SLURRY: BBL.-GAL. 199.8 - 30.0  
 TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

### VOLUMES

REMARKS See Job Log & Chart  
Cement did Circulate  
Thank you

CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET 20.22 REASON Shoe Joint

CUSTOMER: DCF Exploration  
 LEASE: M<sup>U</sup> Veg Ross  
 WELL NO.: A-2  
 JOB TYPE: 4 1/2" Prod. String  
 DATE: 1-25-88



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

15-065-22432-00-00

FORM 1908 R-5

A Halliburton Company

ATTACH TO INVOICE & TICKET NO. 613525-0

DISTRICT Oberlin, Ks.

DATE 1-25-88

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

WELL NO. A-2 LEASE McVey Ross SEC. 7 TWP. 8S RANGE 23W

FIELD W Hill City, Ks. COUNTY Graham STATE Ks. OWNED BY DCF Exploration

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

Table with columns: FORMATION NAME, THICKNESS, PACKER TYPE, TOTAL DEPTH, BORE HOLE, INITIAL PROD, PRESENT PROD, NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I., OPEN HOLE, PERFORATIONS, SHOTS/FT.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

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

Cement 4 1/2" Prod. String w/310 SKS. HDL w/ 1/4" Flocele/SK. 130 SKS. 60/40 Poz. 2% Gel - 10% Salt .75% CFR-24 .25 D-Air w/20 bbl. 2% Saltwater pre flush & 500 gal Super Flush AS directed

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

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

As consideration, the above-named Customer agrees:

- (a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. (b) Halliburton shall not be responsible for and Customer shall secure Halliburton against any liability for damage to property of Customer and of the well owner... (k) This contract shall be governed by the law of the State of Kansas...

RECEIVED STATE COMMISSION

MAR 14 1988 CONSERVATION DIVISION Wichita, Kansas

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

SIGNED DATE TIME CUSTOMER

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

CUSTOMER

HALLIBURTON SERVICES  
JOB LOG

15-065-22432-00-00

WELL NO. A-2 LEASE M<sup>o</sup>vey-Ross TICKET NO. 613525-0

CUSTOMER DCF Exploration PAGE NO. #1 of 1

JOB TYPE 4 1/2" Production String DATE 1-25-88

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL / GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
<del>1-24-88</del>	1935							Called out - Job ready ASAP
	2250							On Loc - Rig laying Down DP - Setup
	2355							DP layed down - Rig up to Run Csg.
1-25-88	0140							Start 4 1/2" Csg. - Run Float Equip -
								Reg Guide Shoe - Insert w/ Auto-Fill up
								Centralizers on 1 <sup>st</sup> - 3 - 5 - 7 - 44 & 59 <sup>th</sup> Collars
								Cement Baskets on 45 <sup>th</sup> + 60 <sup>th</sup> Jts.
	0400							Log w 3802 ft. - Hook up to Cui.
	0412							Rig Start Circulating
								Rig Fill Tank - mix Super Flush + 2% Salt water
	0515							Hook up to Pump truck
	0520	5.0	20.0			250		Start 20 bbl. 2% Salt water
	0524	3.5	3.0			275		Start 3 bbl. Fresh water
	0525	4.0	12.0			275		Start 500gal. Superflush
	0528	4.0	3.0			275		Start 3 BBL. Fresh water
	0529	5.0	199.8			300		Start mixing 310 SKS HDL w/ 1/4" Flocc/5K.
								175 SKS mixed - Rig's tank fill line broke
	0551	2.5				175		Slow mix & pump rate to 2 1/2 BPM
	0602	4.0				200		water line repaired
	0621	4.0	30.0			200		Start mixing 130 SKS 60/40 7oz. 2% Gel. 10% Salt
		4.0						.75% CFR-2 F. 25 D-Air
	0629	4.0				200		Finish Mixing Cement - Rig crew told
								us they were out of water in Reserve Pit
	0630							wash up pump & lines - Release 5 w Top Plug
	0632		60.1					Start disp - Manifold Freeze up - Knock
								off Top of Plug Container & push Plug down
	0638	5.0				100		start disp
	0646	5.0				350		Start lift press. w/ 24 bbl. disp. pumped
	0650	5.0				600		58 bbl. disp. in - out of water - shut down
								& plug suction hose to mud pit and take
								on 10 bbl. mud
	0656	4.0				650		St. disp w/ mud
	0659					1500		Plug landed - Holding
	0703					0		Release Press - Insert HELL
								Circulated 5 BBL. Cement
	0715							Job Completed - THANK YOU
								Eldon - Terry - Jerry - Ross & Kent

RECEIVED  
STATE CORPORATION COMMISSION  
MAR 14 1988  
Wichita, Kansas

CUSTOMER