

CONFIDENTIAL

ORIGINAL

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

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address P. O. BOX 351

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: ANADARKO TRADING COMPANY

Operator Contact Person: J. L. ASHTON

Phone (316) 624-6253

Contractor: Name: CHEYENNE DRILLING

License: 5382

Wellsite Geologist: N/A

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

8-8-96 8-17-96 8-28-96
Spud Date Date Reached TD Completion Date

API NO. 15- 175-21561-00-00

County SEWARD

100 ¹ W - NE - NE Sec. 8 Twp. 34S Rge. 31 X W

660 Feet from (circle one) Line of Section

760 Feet from (circle one) Line of Section

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

Lease Name DAVIES "F" Well # 1

Field Name ARKALON

Producing Formation MORROW

Elevation: Ground 2512.2 KB _____

Total Depth 6200 PBTB 5853

Amount of Surface Pipe Set and Cemented at 1505 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.

Drilling Fluid Management Plan Att. 10-5-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 3600 ppm Fluid volume 700 bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

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INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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

Signature David W. Kappler

DAVID W. KAPPLER

Title DIVISION DRILLING ENGINEER Date 11/18/96

Subscribed and sworn to before me this 18th day of November 19 96.

Notary Public L. Marc Harvey

Date Commission Expires _____

L. MARC HARVEY
Notary Public - State of Kansas
My Appt. Expires 6-12-96

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received

KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

SIDE TWO

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Operator Name ANADARKO PETROLEUM CORPORATION Lease Name DAVIES "F" Well # 1

Sec. 8 Twp. 34 Rge. 31 East County SEWARD
 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.) List All E.Logs Run: DIL, CNL-LDT, ML, SONIC, CBL-GR.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> Log</td> <td style="text-align: center;">Formation (Top), Depth and Datums</td> <td style="text-align: center;"><input type="checkbox"/> Sample</td> </tr> <tr> <td style="text-align: center;">Name</td> <td style="text-align: center;">Top</td> <td style="text-align: center;">Datum</td> </tr> <tr> <td>CHASE</td> <td style="text-align: right;">2424</td> <td></td> </tr> <tr> <td>COUNCIL GROVE</td> <td style="text-align: right;">2774</td> <td></td> </tr> <tr> <td>LANSING</td> <td style="text-align: right;">4277</td> <td></td> </tr> <tr> <td>MARMATON</td> <td style="text-align: right;">4974</td> <td></td> </tr> <tr> <td>MORROW</td> <td style="text-align: right;">5521</td> <td></td> </tr> <tr> <td>STE. GENEVIEVE</td> <td style="text-align: right;">5656</td> <td></td> </tr> <tr> <td>ST. LOUIS</td> <td style="text-align: right;">6076</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample	Name	Top	Datum	CHASE	2424		COUNCIL GROVE	2774		LANSING	4277		MARMATON	4974		MORROW	5521		STE. GENEVIEVE	5656		ST. LOUIS	6076	
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MORROW	5521																											
STE. GENEVIEVE	5656																											
ST. LOUIS	6076																											

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	23.0	1505	MIDCON/ PREM PLUS	340/100	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8	5-1/2	15.5	5896	MIDCON/ VERSASET	140/130	2%CC, 2% CALSEAL, 1/4#SK FLC/ 5%KCL, .6% HALAD-322, .9% VERSASET, 1/4#SK FLOCELE.

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	
		2	5641-47, 5662-70, 5699-5720, 5773-82, 5785-90.
		FRAC: 45640 GAL FOAMED 35# XLINK BORATE	5641-5790 OA
		& 130000# 20/40 SD.	

TUBING RECORD	Size 2-3/8	Set At	Packer At 5545	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 8-30-96		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil 36 Bbls.	Gas 1832 Mcf	Water 0 Bbls.	Gas-Oil Ratio Gravity

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

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

Production Interval: 5641-5790 (OA)

KCC

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ANADARKO PETROLEUM CORPORATION
DAVIES F-1
SECTION 8-T34S-R31W
SEWARD COUNTY, KANSAS

15-175-21561

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COMMENCED: 08-08-96
COMPLETED: 08-18-96

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SURFACE CASING: 1500' OF 8 5/8" CMTD
W/340 SKS PREMIUM PLUS MIDCON + 3% CC
+ 1/4#/SK FLOCELE. TAILED IN W/100 SKS
PREMIUM PLUS + 2% CC + 1/4 #/SK FLOCELE.
1" W/150 SKS PREMIUM PLUS + 3 %

FORMATION

DEPTH

SURFACE HOLE

0 - 1505

RED BED & SHALE

1505 - 2382

KCC

LIMESTONE & SHALE

2382 - 6200 RTD

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I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 23RD DAY OF AUGUST, 1996.

JOLENE K. RUSSELL

NOTARY PUBLIC



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HALLIBURTON

JOB SUMMARY

HALLIBURTON DIVISION *Oil Company*
HALLIBURTON LOCATION *Hays Ks*

BILLED ON TICKET NO. *KCC 113624*

WELL DATA

FIELD _____ SEC *9* TWP. *34* RING. *31* COUNTY *Seward* STATE *Ks*

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____
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
<i>14</i>	<i>23</i>	<i>8 3/4</i>	<i>0</i>	<i>1497</i>	

OPEN HOLE _____ SHOTS/FT. _____
PERFORATIONS _____
PERFORATIONS _____
PERFORATIONS _____

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JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <i>Insert / Filling</i>	<i>1</i>	<i>Howe</i>
GUIDE SHOE <i>R</i>	<i>1</i>	<i>Howe</i>
CENTRALIZERS <i>5-4</i>	<i>6</i>	<i>Howe</i>
BOTTOM PLUG		
TOP PLUG <i>SW</i>	<i>1</i>	<i>Howe</i>
HEAD		
PACKER <i>C. & B. 1</i>	<i>1</i>	<i>Howe</i>
OTHER <i>Howe</i>	<i>1</i>	<i>Howe</i>

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>8-4-98</i>	DATE <i>8-20-98</i>	DATE <i>8-20-98</i>	DATE _____
TIME <i>08:30</i>	TIME <i>13:00</i>	TIME <i>14:00</i>	TIME _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION

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MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL. ^oAPI
DISPL. FLUID _____ DENSITY _____ LB./GAL. ^oAPI
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. _____
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

DEPARTMENT *Contract*
DESCRIPTION OF JOB *Print 2 1/2" 5-8-98*

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN

CUSTOMER REPRESENTATIVE *X Jim Bulow*

HALLIBURTON OPERATOR *J.P. Bulow* COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<i>340</i>	<i>P+P-1</i>		<i>0</i>	<i>CD 100 + 1/4" PL-1</i>	<i>22</i>	<i>11</i>
	<i>100</i>	<i>P-</i>		<i>0</i>	<i>2000 + 1/2" PL-1</i>	<i>10</i>	<i>14</i>

PRESSURES IN PSI
CIRCULATING _____ DISPLACEMENT _____
BREAKDOWN _____ MAXIMUM _____
AVERAGE _____ FRACTURE GRADIENT _____
SHUT-IN. INSTANT _____ 5-MIN. _____ 15-MIN. _____
HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

SUMMARY

VOLUMES

PRESLUSH: BBL.-GAL. _____ TYPE _____
LOAD & BKDN: BBL.-GAL. _____ PAD BBL.-GAL. _____
TREATMENT: BBL.-GAL. _____ DISPL BBL.-GAL. *94*
CEMENT SLURRY: BBL.-GAL. *1934 24*
TOTAL VOLUME: BBL.-GAL. _____

REMARKS

See Job Log
offered 11/18/98

CUSTOMER

CUSTOMER _____ LEASE _____ WELL NO. *F-1* JOB TYPE *Casing* DATE _____



HALLIBURTON

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DATE 8-10-96 PAGE NO.

JOB LOG HAL-2013-C

CUSTOMER APC WELL NO. #1 LEASE Davico F JOB TYPE 205 TICKET NO. 920513

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730							Called out - Requested "now" on Location ORIGINAL
	1950							
	2055							Rig-up mix cement and bulls
	2058			✓	✓		0/350	Pump cmt.
	2122			✓	✓		359/0	Shut down.
								Cement to Surface
								Approx 3 Bbls on 16 str
								Thank you!
								Tom & Seamy

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HALLIBURTON

JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

11700 East
Crescent Rd

BILLED ON TICKET NO. KCC
146 739

WELL DATA

FIELD _____ SEC 8 TWP. 34 RING. 21 COUNTY SEANORA 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	10	13.9	5 7/8	12 1/2	3856	
LINER						
TUBING						
OPEN HOLE			7 3/4 O.L.	6200		SHOTS/FT.
PERFORATIONS						

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JOB DATA

ORIGINAL

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT-COLLAR <u>Passenger 4-1/2</u>	<u>1</u>	<u>Howell</u>
FLOAT SHOE		
GUIDE SHOE <u>1-20</u>	<u>1</u>	
CENTRALIZERS <u>5-11</u>	<u>15</u>	
BOTTOM PLUG		
TOP PLUG <u>3-10</u>	<u>1</u>	
HEAD <u>FRES 100</u>	<u>1</u>	
PACKER		
OTHER		

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
 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. _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-18-96</u>	DATE <u>8-18-96</u>	DATE <u>8-18-96</u>	DATE <u>8-18-96</u>
TIME <u>00:00</u>	TIME <u>03:00</u>	TIME <u>07:35</u>	TIME <u>07:10</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. Spence</u>	<u>4900418</u>	<u>General Ks</u>
<u>D. Prosser</u>	<u>579217</u>	<u>General Ks</u>
<u>R. D. 320</u>	<u>7547661</u>	
<u>S. Telford</u>	<u>4115</u>	<u>Highway Ks</u>
<u>H. 4717</u>	<u>7523761</u>	

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DEPARTMENT SOOT CUT
 DESCRIPTION OF JOB 542 General Ks
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE X
 HALLIBURTON OPERATOR John - Blawie COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU FT / SK	MIXED LBS / GAL
	<u>140</u>	<u>P. 100</u>		<u>12</u>	<u>2 HCC, 1/4 1/2 in Floc</u>	<u>1.42</u>	<u>112</u>
	<u>130</u>	<u>P. 100</u>		<u>13</u>	<u>1/2 1/2 in Floc, 22, 5/8 Floc, 1/2</u>		
	<u>25</u>	<u>P. 100</u>		<u>13</u>	<u>2 HCC, 1/4 1/2 in Floc (Bore Phase)</u>	<u>1.42</u>	<u>115</u>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN INSTANT _____ 5-MIN _____ 15-MIN _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 170 REASON SMALL TEST

SUMMARY

VOLUMES

PRESLUSH (BBL.-GAL.) 2 TYPE 1/2 1/2 in Floc
 LOAD & BKDN (BBL.-GAL.) _____ PAD (BBL.-GAL.) _____
 TREATMENT (BBL.-GAL.) _____ DISPL. (BBL.-GAL.) _____
 CEMENT SLURRY (BBL.-GAL.) _____
 TOTAL VOLUME (BBL.-GAL.) _____

REMARKS

CUSTOMER

CUSTOMER: HALLIBURTON
LEASE: DAMES & MOORE
WELL NO: _____
JOB TYPE: 5 1/2
DATE: _____



JOB LOG HAL-2013-C

CUSTOMER MANDARNO	WELL NO. 1	LEASE DAVE'S "F"	JOB TYPE 5 1/2 LONGSTRENG	TICKET NO. 106738
----------------------	---------------	---------------------	------------------------------	----------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	00:00							CALLED OUT RENDY 03:00
	02:00							ON LOC. Rig L.D.O.P.
	03:30							Rig UP CASING CREW
	03:50							START CSQ
	06:35							CSQ ON BOTTOM
	06:45							CIRC w/ Rig
	07:35							PLUG RAT & MOUSE HOLE
	07:43							HOOK TO HALLIBURTON TO CSQ
	07:49	6.5	26			100		START PREFLUSH 2% HCL, SUPERFLUSH, 2% HCL
	07:52	5.5	50.1			100		START LEAD CMT @ 12.8 #/gal
	08:01	5.4	32.8			150		START TAIL CMT @ 14.5 #/gal
	08:07					0		SHUT DOWN
	08:09					0		DROP PLUG & WASH TO PET
	08:47	3.9	139.3			100		START DISPLACEMENT
	08:47					750		PLUG DOWN
	08:50					1250		RELEASE BACK
	08:50					0		JOB COMPLETE

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THANK YOU FOR CALLING
HALLIBURTON
ROBERT E. CREW

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