

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: TEXACO TRADING & TRANSPORTATION, INC.

Operator Contact Person: J. L. ASHTON

Phone (316) 624-6253

Contractor: Name: BIG "A" DRILLING, INC.

License: 31572

Wellsite Geologist: NA

Designate Type of Completion
 New Well Re-Entry Workover

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

If Workover:

RELEASED

Operator: _____

Well Name: NOV 1 1996

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. _____

9-5-95 9-18-95 10-11-95
Spud Date Date Reached TD Completion Date

API NO. 15- 189-21989-0000

County STEVENS

C - SW - NE Sec. 14 Twp. 31 Rge. 35 E

1980 Feet from NX (circle one) Line of Section

1980 Feet from EX (circle one) Line of Section

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

Lease Name HANKE "B" Well # 4

Field Name CHURCHMAN-BIBLE

Producing Formation CHESTER

Elevation: Ground 2975.1 KB --

Total Depth 5770 PBDT 5695

Amount of Surface Pipe Set and Cemented at 1738 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 3304 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT 1 B/DW
(Data must be collected from the Reserve Pit) 5-10-96

Chloride content 1800 ppm Fluid volume 700 bbls

Dewatering method used NATURAL EVAPORATION

Location of fluid disposal if hauled offsite: NUC

Operator Name _____

Lease Name _____ License No. CONFIDENTIAL

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

County _____ Docket No. _____

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. Kapple
Title DIVISION DRILLING ENGINEER Date 10/20/95

Subscribed and sworn to before me this 20th day of October, 19 95.

Notary Public L. Marc Harvey
Date Commission Expires _____

L. MARC HARVEY
Notary Public - State of Kansas
My Appt. Expires 6-12-99

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

Form ACO-1 (7-91)

STATE COMMISSION RECEIVED
OCT 20 1995
10-24-95

Operator Name **ANADARKO PETROLEUM CORPORATION**

SIDE TWO

CONFIDENTIAL

Lease Name **HANKE "B"** Well # **4**

Sec. 14 Twp. 31 Rge. 35
 East
 West

County **SIYEVENS**

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	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Datum</th> </tr> </thead> <tbody> <tr> <td>B/STONE CORRAL</td> <td>1792</td> <td></td> </tr> <tr> <td>CHASE</td> <td>2570</td> <td></td> </tr> <tr> <td>COUNCIL GROVE</td> <td>2883</td> <td></td> </tr> <tr> <td>HEEBNER</td> <td>4034</td> <td></td> </tr> <tr> <td>LANSING</td> <td>4134</td> <td></td> </tr> <tr> <td>MARMATON</td> <td>4820</td> <td></td> </tr> <tr> <td>MORROW</td> <td>5350</td> <td></td> </tr> <tr> <td>CHESTER</td> <td>5520</td> <td></td> </tr> <tr> <td>ST LOUIS</td> <td>5692</td> <td></td> </tr> </tbody> </table>	Name	Top	Datum	B/STONE CORRAL	1792		CHASE	2570		COUNCIL GROVE	2883		HEEBNER	4034		LANSING	4134		MARMATON	4820		MORROW	5350		CHESTER	5520		ST LOUIS	5692	
Name	Top		Datum																													
B/STONE CORRAL	1792																															
CHASE	2570																															
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HEEBNER	4034																															
LANSING	4134																															
MARMATON	4820																															
MORROW	5350																															
CHESTER	5520																															
ST LOUIS	5692																															
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																															
Cores Taken	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																															
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																															
List All E.Logs Run: CNL-LDT, DIL, ML, SONIC, MSFL, SBT-GR.																																

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	12.25	8.625	24	1738	MIDCON 2 / PREEM PLUS	335/160	2%CC, 1/4#/SK FLC/SAME.
PRODUCTION	7.875	5.5	15.5	5763	MIDCON 2 / 50/50 POZ	115/90	2%CC, .6%HALAD 322/10%SALT, .75% SK FLC.
			FO TOOL @	3304	MIDCON 2	65	NONE

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	Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
2	5592-5615	ACID: 4000 GAL 7-1/2% FEHCL	5592-5615'
		FRAC: 35658 GAL 40# BORATE XLINK. 2% KCL	5592-5615'
		WTR & 138300# 20/40 SD.	

TUBING RECORD	Size 2-3/8	Set At 5565	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. 10-13-95	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil 100 Bbls.	Gas 25 Mcf	Water 38 Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

Method of completion: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: 5592-5615

RELEASED

ORIGINAL

Attachment to Form ACO-1

NOV 1 1996

Core Description
Anadarko Petroleum Corporation
Hanke B-4
Sec 14-31S-35W
Stevens Co. Kansas

FROM CONFIDENTIAL

CONFIDENTIAL

15-189-21989

KCC

OCT 20

CONFIDENTIAL

5580-5582	Sh-Gry, Calc.
5582-5588.5	Ls-Brn, Crsly Xln, Crs Foss. Frag. (Crin), Sptd Oil Stn, Slo Cut.
5588.5-5601	Sh-Gry, Sli Calc, Smooth Txt.
5601-5603	Ls-Drk Brn, Crs Crin. Frag, Tite.
5603-5608	Ss-Lt Brn, Vf Grn, Sil & Calc, Sptd Oil Stn, Slo Stng Cut, 6%
5608-5612	Ss-Lt Brn, F Grn, Calc, Discrete White Clay Granis, uniform Stn, Good Por, 12%, Excel Strng Cut.
5612-5617	Ls-V Lt Brn, Foss, Sandy Lams, Uniform Stn, Strong Cuts, Lams of 8%.
5617-5618	Ss-Lt Brn, V Crs. Grn, Sil, Tite.
5618-5619	Ls-Brn, F Xln, Shaley Lams, Tite.
5619-5620.5	Ss- Lt Brn, V Sil, Discrete White Clay Grns, Spttd Oil Stain, P-F Por.
5620.5-5623	Ss-Upper F Grn, Ls Clasts, Disc Clay Grns, 6-8%, Spttd Stain.
5623-5624	Ls-Brn, Crs Crin Frag, Tite.
5624-5640	Sh-Gry, Calc.

RECEIVED
STATE CORPORATION COMMISSION

OCT 24 1995

CONSTRUCTION COMMISSION
WICHITA, KANSAS

WELL DATA

FIELD LAHEY SEC. 14 TWP. 31S RNG. 35W COUNTY STEVENS 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 1790

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>24'</u>	<u>8 7/8</u>	<u>KB</u>		
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>9-7-95</u>	DATE <u>9-7-95</u>	DATE <u>9-7-95</u>	DATE <u>9-7-95</u>
TIME <u>0500</u>	TIME <u>0715</u>	TIME	TIME

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT VALVE <u>INSERT 8 7/8</u>	<u>1</u>	<u>HOWCO</u>
GUIDE SHOE <u>REG 8 7/8</u>	<u>1</u>	<u>HOWCO</u>
CENTRALIZERS <u>8 7/8</u>	<u>5</u>	<u>" "</u>
BOTTOM PLUG		
TOP PLUG <u>5' W</u>	<u>1</u>	<u>" "</u>
HEAD <u>P/C 8 7/8</u>	<u>1</u>	<u>" "</u>
PACKER		
OTHER <u>BASKET 8 7/8</u>	<u>1</u>	<u>" "</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. WOODROW 62573</u>	<u>420044 P/C</u>	<u>LIBERAL KS</u>
<u>T. DAVIS F4550</u>	<u>S3355/75TG-4 / 76900</u>	<u>" "</u>
<u>G. ASHLEY</u>	<u>52920/BULK / 71631</u>	<u>HUGOTON KS</u>
<u>E. BOONE</u>	<u>4037/BULK / 6610</u>	<u>" "</u>
RELEASED		
<u>NOV 1 1996</u>		
FROM CONFIDENTIAL	<u>OCT 20</u>	CONFIDENTIAL

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL. API
 DISPL. FLUID _____ DENSITY _____ LB./GAL. API
 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. _____
 GELLING AGENT TYPE _____ GAL.-LB. _____
 FRIC. RED. AGENT TYPE _____ GAL.-LB. _____
 BREAKER TYPE _____ GAL.-LB. _____
 BLOCKING AGENT TYPE _____ GAL.-LB. _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

CONFIDENTIAL

COMMISSION

DEPARTMENT CEMENT
 DESCRIPTION OF JOB CEMENT 8 7/8 SURFACE ESG
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE X Jim Barlow
 HALLIBURTON OPERATOR J. Woodrow COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>335</u>	<u>midcon 2</u>	<u>Malco</u>	<u>B</u>	<u>28cc 1/4 floccul</u>	<u>3.22</u>	<u>11.1</u>
	<u>160</u>	<u>premium t</u>	<u>" "</u>	<u>B</u>	<u>28cc 1/4 floccul</u>	<u>1.32</u>	<u>14.8</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

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 40 REASON SHOT JOINT

PRESLUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. 108
 CEMENT SLURRY: BBL.-GAL. 192 LL
 TOTAL VOLUME: BBL.-GAL. 37.670
 REMARKS 229

CUSTOMER AMADARCO PETROLEUM
 LEASE HAYKE "B"
 WELL NO. 4
 JOB TYPE 8 7/8 SURFACE
 DATE 9-7-95



JOB LOG HAL 2013C

CUSTOMER: ANADARKO PET CORP WELL NO.: 4 LEASE: HANK 'B' JOB TYPE: 8 7/8 SURFACE TICKET NO.: 811458

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0800							JOB READY ORIGINAL
	0500							CALLED OUT FOR JOB
	0715							PUMP TRUCK ON LOCATION - RIO STILL DRILLING SET UP PUMP TRUCK
	0800							BULK TRUCKS ON LOCATION -
	0915							RIG THROUGH DRILLING 1740' OF 12 1/4 HOLE
	0945							TRIP OUT DRILL PIPE
	1130							START RUNNING 8 7/8" CSG + FLT EQUIP
	1230							GASING ON BOTTOM 1740'
	1240							OCT 20 HOOK UP 8 7/8" P/C + CIRCULATING IRON
	1241							START CIRCULATING WITH RIG PUMP
	1245							HOLD SAFETY MEETING THROUGH CIRCULATING - HOOK UP TO PUMP TRUCK
	1250	6.5	192					JOB PROCEEDURE START MIXING 335 SKS MID GAN LEAD CMT
	1315	6.5	37					0-225 START MIXING 160 SKS PREMIUM + TAIL CMT
	1320		229					0' THROUGH MIXING CEMENT - SHUT DOWN
	1321	6.0						RELEASE PLUG - START DISPLACING
	1324		18.0					HAVE 18 BBL'S DISPLACED - GETTING GOOD CMT RETURNS TO SURFACE.
	1345		109.5					700' PLUG DOWN - RELEASE FLOAT FLOAT HELD
								RELEASED NOV 1 1996
								FROM CONFIDENTIAL THANK YOU! CALL AGAIN
								WOODY + TYCE
								ON LOCATION TIME: 7 HRS 45 MIN PUMP TIME 50 MIN

CONFIDENTIAL

CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION
OCT 2 1995
SIGN



HALLIBURTON ENERGY SERVICES

HAL-1906-N

ADDRESS: ANADARKO PETROLEUM CORP
 CITY, STATE, ZIP CODE: _____

No. 811458 - X

PAGE 1 OF _____

SERVICE LOCATIONS 1. <u>035540 LIBERAL</u>	WELL/PROJECT NO. <u>4</u>	LEASE <u>HARKE B</u>	COUNTY/PARISH <u>STEPHEN</u>	STATE <u>TX</u>	CITY/OFFSHORE LOCATION	DATE <u>8-7-95</u>	OWNER
2. <u>035535 MEXFON</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>REG A DRIS</u>	RIG NAME/NO.	SHIPPED VIA <u>TRUCK</u>	DELIVERED TO <u>WELL</u>	ORDER NO.
3.	WELL TYPE	WELL CATEGORY <u>01-Development</u>	JOB PURPOSE <u>010 9/8 SURFACE</u>	WELL PERMIT NO.	WELL LOCATION <u>1141</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117		/			MILEAGE	34		3.54		122.76	
001-916		/			PUMP CHARGE					1320.00	
030-918		/			5" IN POP PLUS	1	EA	278	EA	130.00	130.00
12A	825-217	/			REG Guide SHOR	1	EA	278	EA	216.00	216.00
24A	815-19502	/			INSERT FLOAT	1	EA	278	EA	131.00	131.00
27	815-19415	/			FILL UP ASSY	1	EA	150	EA	85.00	85.00
40	206-11098	/			GENERALIZER	1	EA	278	EA	65.00	235.00
320	206-71460	/			BACKET	1	EA	278	EA	110.00	40.00
350	272-10802	/			HARKE WELD A	1	EA	1.00	EA	17.50	17.50

ORIGINAL
CONFIDENTIAL

OCT 20 1995
CONFIDENTIAL
RECEIVED STATE CORPORATION COMMISSION
OCT 24 1995
COMMISSIONER'S OFFICE

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions. MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURNED <input type="checkbox"/> PULLED & RUN	SURVEY AGREE <input type="checkbox"/> UN-DECIDED <input type="checkbox"/> DIS-AGREE <input type="checkbox"/>		PAGE TOTAL 2526 50 FROM CONTINUATION PAGE(S) 9254 03
	TYPE LOCK	BEAN SIZE	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? WE UNDERSTOOD AND MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY? WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO	
	TYPE OF EQUALIZING SUB.	CASING PRESSURE	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	
	TUBING SIZE	TUBING PRESSURE		

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <u>Ann Barlow</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>X Ann Barlow</u>	HALLIBURTON OPERATOR/ENGINEER EMP #	HALLIBURTON APPROVAL
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HALLIBURTON

HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 17

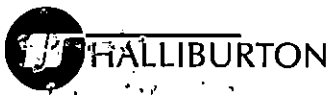
FORM 1911 R-10

CUSTOMER Anadarko Petroleum Corp. WELL Name "B" #4 DATE 09-07-95

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE		AMOUNT		
		LOC	ACCT	DF										
504-050	516.00265				Premium Plus Cement	160	sk			11	91	1905	60	
504-282					Midcon	335	sk			16	39	5490	65	
507-210	890.50071				Flocele 1/2W/ 495	124	lb			1	65	204	60	
509-406	890.50812				Calcium Chloride 2W/ 495	10	sk			36	75	367	50	
<p>ORIGINAL</p> <p>CONFIDENTIAL</p> <p>RECEIVED STATE CORPORATION COMMISSION OCT 2 4 1995 CONSERVATION DIVISION</p> <p>RELEASED NOV 1 1996 FROM CONFIDENTIAL</p>														
500-207					SERVICE CHARGE	CUBIC FEET				541	1	35	730	35
500-306					MILEAGE CHARGE	TOTAL WEIGHT	48,713	LOADED MILES	24	TON MILES	584.556	95	555	33

No. B 209782

CONTINUATION TOTAL



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Mid Continent
Liberal Ks

LMH

BILLED ON TICKET NO. *812-185*

FIELD *LAHEY* SEC. *14* TWP. *31s* RNG. *35w* COUNTY. *Stevens* STATE *Ks*

WELL DATA

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	<i>N</i>	<i>15.5</i>	<i>5 1/2</i>	<i>KB</i>	<i>5763</i>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

CONFIDENTIAL

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <i>insert/Fill-up 2</i>	<i>1</i>	<i>Hawco</i>
FLOAT SHOE		
GUIDE SHOE <i>REG</i>	<i>n</i>	<i>1</i>
CENTRALIZERS <i>5-4</i>	<i>n</i>	<i>19</i>
BOTTOM PLUG <i>Basket</i>	<i>n</i>	<i>1</i>
TOP PLUG <i>5w</i>	<i>n</i>	<i>1</i>
HEAD		
PREWER <i>Fleet collar</i>	<i>n</i>	<i>1</i>
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>9-16-95</i>	DATE <i>9-16-95</i>	DATE <i>9-16-95</i>	DATE <i>9-16-95</i>
TIME <i>0230</i>	TIME <i>0540</i>	TIME <i>1222</i>	TIME <i>1316</i>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>T. Poyer #48120</i>	<i>420044</i>	<i>Pick-up Liberal Ks</i>
<i>S. Jata #E0562</i>	<i>76900</i>	<i>" "</i>
<i>S. Peater #C9663</i>	<i>75505</i>	<i>Bulk Hugoton, Ks</i>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API
DISPL. FLUID _____ DENSITY _____ LB/GAL. API
PROP. TYPE _____ SIZE _____ LB.
PROP. TYPE _____ SIZE _____
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.
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

RELEASED

NOV 1 1996

FROM CONFIDENTIAL

RECEIVED STATE CORPORATION COMMISSION

OCT 2 1995

CONSULTANTS

DEPARTMENT *Cement*
DESCRIPTION OF JOB *Set Production string*
JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
CUSTOMER REPRESENTATIVE *X [Signature]*
HALLIBURTON OPERATOR *Tom Poyer* COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<i>115</i>	<i>Midcon 2</i>		<i>B</i>	<i>2% CC, 1/2% Halad-322</i>	<i>2.01</i>	<i>12.8</i>
	<i>90</i>	<i>50/50 1/2</i>		<i>B</i>	<i>3/4% Halad-322, 10% salt, 1/4% sk Floada</i>	<i>1.28</i>	<i>14.3</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 *42* REASON *Shoe Joint*

SUMMARY

VOLUMES

PRESLUSH *20-30-20* GAL. TYPE *28K1-M.F. - 28 K1*
LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
TREATMENT: BBL.-GAL. _____ DISPL. (BBL.-GAL.) *136.16*
CEMENT SLURRY: BBL.-GAL. *41.16 + 20.51*
TOTAL VOLUME: BBL.-GAL. _____

REMARKS

M.S.P.S @ Big A Drilling
Good Returns

CUSTOMER *Hawco*
LEASE *Hawco*
WELL NO. *B-4*
JOB TYPE *035-*
DATE *9-16-95*



HALLIBURTON

ORIGINAL

DATE

9-16-95

PAGE NO.

JOB LOG HAL-2013-C

CUSTOMER Andrako	WELL NO. B-4	LEASE HANES	JOB TYPE 035	TICKET NO. 912 185
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0230							Called-out — Rig "0600"
	0540							On Loc — L.D.D.P.
	0550							Rig-up — Safety Meeting
	0830							Run csg @ 138 lbs — 5763 ft.
	0945							Part collar on top of joint #59
	1109							On bottom of csg.
	1110							Hook-up to circ. — circ broke "122 hrs" — Ricipr
	1220							Hook-up to emt.
	1222	0-4	20				150	Pump 2% kcl — reciprocate pipe
		4	30				150	Pump mud flush
		4	20				250	Pump 2% kcl
	1241	4-6	41.1				300	Pump lead emt. — 115 sks
		6	20.5				300/250	Pump tail emt. — 90 sks
	1251	6-0					250	shut down — Drop plug — wash-up trk.
	1254	0-6 1/2	136.1				0/750	Pump Displ.
	1314	6 1/2 - 3					750/500	Reduce RATE — 130 bbls in
	1316	3-0					550/1150	Plug down — stop reciprocating
	1316						1150	Release press — Float "hold"

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Thank you!

nic

Jim, Sonny, Shawn

OCT 20

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OCT 24 1995

CONSERVATION DIVISION WITTINGMAN

Loc time: 7 hrs 20 mins
Pump time: 54 mins

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NOV 1 1996

FROM CONFIDENTIAL



HALLIBURTON

HALLIBURTON ENERGY SERVICES

HAL-1906-N

CHARGE TO: *Andaeko Pet*

ADDRESS:

CITY, STATE, ZIP CODE:

TICKET No. **812185 - 0**

PAGE 1 OF 2

SERVICE LOCATIONS: 1. *25540*, 2. *25535*

WELL/PROJECT NO.: *B-4*

LEASE: *HANKE*

COUNTY/PARISH: *STEVENS*

STATE: *KS*

CITY/OFFSHORE LOCATION: *SARANA*

DATE: *9-16-95*

OWNER:

TICKET TYPE: SERVICE JOB? YES NO

CONTRACTOR: *Rig A*

RIG NAME/NO.: *1*

SHIPPED VIA: *HES*

DELIVERED TO: *well site*

ORDER NO.:

WELL TYPE: *01*

WELL CATEGORY: *01*

JOB PURPOSE: *075*

WELL PERMIT NO.:

WELL LOCATION: *Land (14-31-35u)*

REFERRAL LOCATION:

INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING LOC ACCT DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
<i>000-117</i>			MILEAGE	<i>2EA</i>	<i>mi</i>	<i>34</i>	<i>mi</i>	<i>2.75</i>	<i>187.00</i>
<i>001-016</i>			Pump Charge	<i>6</i>	<i>hrs</i>	<i>5763</i>	<i>ft</i>		<i>2000.00</i>
<i>030-018</i>			Top plug	<i>1</i>	<i>EA</i>	<i>5 1/2</i>	<i>in</i>		<i>60.00</i>
<i>001-018</i>			Additional hour	<i>EA</i>	<i>hr</i>	<i>1 1/4</i>	<i>hrs.</i>	<i>235.00</i>	<i>NONE</i>
<i>12A</i>	<i>825.205</i>		Braided shoe	<i>1</i>	<i>EA</i>	<i>5 1/2</i>	<i>in</i>		<i>125.00</i>
<i>24A</i>	<i>815.19251</i>		INSERT	<i>1</i>	<i>EA</i>	<i>5 1/2</i>	<i>in</i>		<i>110.00</i>
<i>27</i>	<i>815.19311</i>		Fill up	<i>1</i>	<i>EA</i>				<i>55.00</i>
<i>40</i>	<i>806.60022</i>		CENTRALIZERS	<i>19</i>	<i>EA</i>	<i>5 1/2</i>	<i>in</i>	<i>60.00</i>	<i>1140.00</i>
<i>320</i>	<i>906.71430</i>		BASKET	<i>1</i>	<i>EA</i>	<i>5 1/2</i>	<i>in</i>		<i>90.00</i>

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to: PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: *[Signature]* TIME SIGNED: A.M. P.M.

do do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS: PULLED & RETURN PULLED RUN

TYPE LOCK: _____ DEPTH: _____

BEAN SIZE: _____ SPACERS: _____

TYPE OF EQUALIZING SUB: _____ CASING PRESSURE: _____

TUBING SIZE: _____ TUBING PRESSURE: _____ WELL DEPTH: _____

TREE CONNECTION: _____ TYPE VALVE: _____

SURVEY: AGREE UN-DECIDED DISAGREE

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: *3763.00*

FROM CONTINUATION PAGE(S): *4263.79*

SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE: *8026.29*

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES. The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT): *Harold Gibson*

CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): *[Signature]*

HALLIBURTON OPERATOR/ENGINEER: *[Signature]*

EMP #: *48120*

HALLIBURTON APPROVAL: _____

ORIGINAL
 RELEASED NOV 1 1996
 FROM CONFIDENTIAL
 CONFIDENTIAL
 RECEIVED NOV 3 1996
 RECEIVED NOV 3 1996



HALLIBURTON

HALLIBURTON ENERGY SERVICES

FORM 1911 R-10

TICKET CONTINUATION

DUNCAN COPY

TICKET No. 812185

CUSTOMER APC !

WELL Hanke

DATE 9-13-95 PAGE 2 OF 12

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	WELL		DATE	PAGE OF				
		LOC	ACCT	DF		QTY.	U/M			QTY.	U/M	UNIT PRICE	AMOUNT
504-282					Midcon					115	SK	16.32	1884.35
504-050	516 00 265									115	SK		
507-225	70.15230									218	KB		
508-427	511 00 235									2	SK		
504-131					5050 Premium P2					90	KB	8.74	786.60
504-043	516 00 277									45	SK		
506-105	511 00 296									330	KB		
506-124	511 00 259									2	SK		
507-210	490 50 581				Flt 1/4" / 90SK					33	KB	1.15	37.95
507-725	516 00 144				Material - 372 4000 / 115 SK / 3600 90SK					122	KB	7.82	954.84
509-409	490 50 912				Calcium Chloride 3% / 115 SK					2	SK	36.25	73.50
509-563	516 00 315				Salt 10% / 90SK					431	KB	15	6465
500-207													
500-306													
SERVICE CHARGE						CUBIC FEET							
MILEAGE CHARGE						TOTAL WEIGHT							
						LOADED MILES							
						TON MILES							

ORIGINAL

FROM CONFIDENTIAL

NOV 20 1995 CONFIDENTIAL

CONFIDENTIAL

OCT 24 1995 RECEIVED OFFICE OF THE ATTORNEY GENERAL

No. B 211801

CONTINUATION TOTAL 4263.29



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Mid-Continent
Liberal

BILLED ON TICKET NO. 881276

WELL DATA

FIELD _____ SEC. 14 TWP. 3/S RING. 35W COUNTY. Steubens STATE KANSAS

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	<u>2</u>	<u>15.5</u>	<u>5/8</u>	<u>0</u>	<u>5768</u>	
LINER						
TUBING	<u>4</u>	<u>46</u>	<u>2 7/8</u>	<u>0</u>	<u>5620</u>	
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES

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

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>9-26-95</u>	DATE <u>9-26-95</u>	DATE <u>9-26-95</u>	DATE <u>9-26-95</u>
TIME <u>05:30</u>	TIME <u>08:30</u>	TIME <u>10:00</u>	TIME <u>14:45</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. °API
 DISPL. FLUID _____ DENSITY _____ LB/GAL. °API
 PROP. TYPE _____ SIZE _____ LB.
 PROP. TYPE _____ SIZE _____ LB.
 ACID TYPE HCL GAL. 200 % 15
 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 _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>K. Boone</u> <u>4784</u>	<u>420042</u>	<u>Liberal</u>
<u>U. Tate</u> <u>E0568</u>	<u>53883</u>	<u>"</u>
<u>M. Lopez</u>	<u>75374</u>	<u>"</u>
<u>T. Poyer</u> <u>48120</u>	<u>4461</u>	<u>Hugoton</u>
	<u>75507</u>	<u>"</u>
	<u>76838</u>	<u>Liberal</u>

ALL
OCT 20
CONFIDENTIAL

DEPARTMENT Cement
 DESCRIPTION OF JOB Cement Port collar
 F.O. Tool @ 3304
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE X [Signature]
 HALLIBURTON OPERATOR K. Boone COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>65</u>	<u>midcon</u>		<u>6</u>		<u>3.22</u>	<u>11.1</u>

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FROM CONFIDENTIAL VOLUMES

SUMMARY

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. 5 TYPE Hw
 BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 33
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. 37
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____
 ORDERED _____ AVAILABLE _____ USED _____ REMARKS _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET _____ REASON _____

CUSTOMER Avadarko
 LEASE Hake '8
 WELL NO. 4
 JOB TYPE Cement
 DATE 9-26-95



9-26-95

JOB LOG HAL-2013-C

CUSTOMER ANADARKO	WELL NO. 4	LEASE Hauke "B"	JOB TYPE Re-cement	TICKET NO. 881276
----------------------	---------------	--------------------	-----------------------	----------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	05:30							called out
	08:30							on loc.
								Safety Meeting
								ORIGINAL
	10:34					1500		Test casing OK
	10:44							Bleed down to 500 PSI
						500		open F.O. Tool
	10:46	2 1/2	10			400		est rate 2 1/2 bpm @ 400 PSI
	10:48	3	27					Pump cement
	11:00					800		Displace
	11:05	3	18					shut down
	11:06							close F.O. Tool
						1500		Test Tool OK
	11:12							Release Press.
								TI # w/ tubing to 5620
	12:48	1/2	15					start acid
	12:51	1/2	52 1/2					Displace
	14:23							Reverse Acid out
	14:45		60			500		shut down

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OCT 24 1995

FROM CONFIDENTIAL

Job Time 6 HR 45 min
Pump Time 2 HR 35 min