

**CONFIDENTIAL**

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

API NO. 15- \_\_\_\_\_ 189-21864 - 0000

County STEVENS

\_\_\_\_\_ - NW - NE Sec. 14 Twp. 31S Rge. 35  E  W

660 Feet from S (circle one) Line of Section

1980 Feet from E/W (circle one) Line of Section

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

Lease Name HANKE "B" Well # 3

Field Name CHURCHMAN-BIBLE

Producing Formation CHESTER

Elevation: Ground 2981.8' KB 2993.8'

Total Depth 5850' PBD 5780'

Amount of Surface Pipe Set and Cemented at 1782 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 3002 Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan Alt 1 DAW  
(Data must be collected from the Reserve Pit) 4-22-99

Chloride content 1000 ppm Fluid volume 5000 bbls

Dewatering method used NATURAL EVAPORATION

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

\_\_\_\_\_ Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address P. O. BOX 351

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: JAYHAWK PIPELINE

Operator Contact Person: J. L. ASHTON

Phone (316) 624-6253

Contractor: Name: NORSEMAN DRILLING INC.

License: 3779

Wellsite Geologist: NA

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-perforation  Completion to the SWD

Plug Back  PBD

Commingled  Docket No. \_\_\_\_\_

Dual Completion  Docket No. \_\_\_\_\_

Other (SWD or Inj?)  Docket No. \_\_\_\_\_

1-23-95 2-3-95 3-13-95  
Spud Date Date Reached TD Completion Date

**RELEASED**

**APR 22 1996**

**FROM CONFIDENTIAL**

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 L. Marc Harvey  
L. MARC HARVEY  
Title DRILLING TECHNICAL ASSISTANT Date 3-13-95

Subscribed and sworn to before me this 23rd day of March, 1995.

Notary Public Cheyl Steers

Date Commission Expires \_\_\_\_\_  
**CHERYL STEERS**  
Notary Public - State of Kansas  
My Apt. Expires 6-1-97

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)

RECEIVED  
STATE CORPORATION COMMISSION  
Form ACO-1 (7-91)

**MAR 31 1995**

CONSERVATION DIVISION  
WICHITA, KANSAS

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name HANKE "B" Well # 3  
 Sec. 14 Twp. 31S Rge. 35  East  West  
 County STEVENS

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  
 (Attach Additional Sheets.)  
 Samples Sent to Geological Survey  Yes  No  
 Cores-Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)  
 List All E.Logs Run: CCL-CNL-GR, DISFL, BHC SONIC, LDT-CNL.

Log Formation (Top), Depth and Datums  Sample

Name	Top	Datum
B/STONE CORRAL	1806	
WELLINGTON	2236	
CHASE	2582	
COUNCIL GROVE	2950	
HEEBNER	4050	
LANSING	4186	
MARMATON	4854	
MORROW	5392	
CHESTER	5568	
ST. LOUIS	5744	

CASING RECORD  New  Used  
 Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12 1/4	8 5/8	24	1782	PREM PLUS LT/ PREM PLUS	590/160	2%CC, 1/4#/SX FLC/ 2%CC, 1/4#/SX FLC
PRODUCTION	7 7/8	5 1/2	15.5	5850	50/50 PREM PL/ PREM POZMIX	50/190	.75%HALAD322, 10% SLT, 1/4#/SXFLC./ .75%HALAD322, 10% SLT, 1/4#/SXFLC.
F.O.SET TOOL @ 3002' W/90SX. MIDCON 2							

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	5642-5664	ACID W/2000GAL 15% HCL & 60 BS ACID W/ 50GAL FE ACID. FRAC W/ 36975GAL 40# GELLED 2% KCL WTR &150600# 20/40SD, PROPLOCK 4500GAL-8# &10# STAGE.
		5642-5664'

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	5592		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
FIRST PROD 3-19-95				
Estimated Production Per 24 Hours	Oil 184 Bbls.	Gas 20 Mcf	Water 21 Bbls.	Gas-Oil Ratio Gravity 39.8

Disposition of Gas: METHOD OF COMPLETION Production Interval  
 Vented  Sold  Used on Lease  Open Hole  Perforated  Dually Comp.  Commingled  
 (If vented, submit ACO-18.)  Other (Specify) \_\_\_\_\_ 5642-5664'

ORIGINAL CONFIDENTIAL

NORSEMAN DRILLING, INC.  
WICHITA, KANSAS  
DRILLERS' WELL LOG

RELEASED

APR 22 1996

WELL NAME: HANKE B-3  
SECTION 14-31S-35W  
STEVENS COUNTY, KANSAS

FROM CONFIDENTIAL

COMMENCED: JANUARY 23, 1995

API #15-189-21864

COMPLETED: FEBRUARY 04, 1995

OPERATOR: ANADARKO PETROLEUM CORPORATION

Depth From	To	Formation	Remarks
0	1262	Sand & Redbed	Ran 43 jts of 24#
1263	1380	Glorietta Sand	8 5/8" csg set @
1381	2579	Redbed & Shale	1782'; w/590 SX of
2580	5850	Lime - Shale	Premium Lite 65/35 "C" pozmix; 6% Gel; 2% CC; 1/4# SX Flocele; Tailed w/160 SX Class C; 2% CC; 1/4# SX Flocele; Plug down at 3:30 a.m. on 01/25/95.

Ran 139 jts 5 1/2" 15.5#, Set @ 5850'; w/50 SX 50/50 pozmix; w/.75% 322; 10% Salt; 1/4# SX Flocele; Tailed w/190 SX 50/50 pozmix; w/.75% 322; 10% Salt; 1/4# Flocele; Plug down at 7:15 p.m., on 02/04/95

STATE OF KANSAS

)I, the undersigned, being duly sworn on  
)oath, state that the above Drillers' Well  
)Log is true and correct to the best of my  
)knowledge and belief and according to the  
)records of this office.

COUNTY OF SEDGWICK

RECEIVED  
STATE CORPORATION COMMISSION

MAR 31 1995

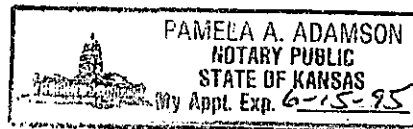
NORSEMAN DRILLING, INC.

CONSERVATION DIVISION  
WICHITA, KANSAS

JAMES P. REILLY, PRESIDENT

Subscribed & sworn to before me this

February 7, 1995



My Appointment Expires:

June 15, 1995

*Pamela A. Adamson*  
Pamela A. Adamson, Notary Public  
340 Seville  
Wichita, KS 67209



# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

Midcom  
Liberal KS

BILLED ON TICKET NO. 706226

FIELD Cutter Churchman-Bible SEC. 14 TWP. 31S RING. 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 \_\_\_\_\_  
BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	24	8 5/8	0	1784	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**ORIGINAL**

**CONFIDENTIAL**

### JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>1-24-95</u> TIME <u>2000</u>	DATE <u>1-24-95</u> TIME <u>2230</u>	DATE <u>1-25-95</u> TIME <u>0215</u>	DATE <u>1-25-95</u> TIME <u>0327</u>

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>Auto fill</u>	<u>1</u>	<u>H</u>
FLOAT SHOE <u>Insert float</u>	<u>1</u>	<u>O</u>
GUIDE SHOE <u>Reg</u>	<u>1</u>	<u>W</u>
CENTRALIZERS <u>54</u>	<u>5</u>	<u>G</u>
BOTTOM PLUG		<u>O</u>
TOP PLUG <u>5W</u>	<u>1</u>	
HEAD <u>PC</u>	<u>1</u>	
PACKER <u>Basket</u>	<u>1</u>	
OTHER <u>Weld A</u>	<u>1</u>	

NAME	UNIT NO. & TYPE	LOCATION
<u>O Nicholas</u> <u>44525</u>	<u>40078</u>	<u>Liberal</u>
<u>H Tedder</u> <u>5623</u>	<u>4903</u> <u>7131</u>	<u>  </u>
<u>M Kadin</u> <u>61511</u>	<u>3617</u> <u>7620</u>	<u>Hugoton</u>
<u>C Cornelson</u> <u>62569</u>	<u>52920</u> <u>5839</u>	<u>  </u>
<b>RELEASED</b>		
Apr 22 1996		

### 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. \_\_\_\_\_  
PERFAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_

DEPARTMENT Cement  
DESCRIPTION OF JOB Cement  
JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
CUSTOMER REPRESENTATIVE X [Signature]  
HALLIBURTON OPERATOR [Signature] COPIES REQUESTED \_\_\_\_\_

### CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>590</u>	<u>PAWS HCL</u>			<u>2% CC 1/4# Flocele</u>	<u>2.05</u>	<u>12.3</u>
	<u>160</u>	<u>PAWS C</u>			<u>2% CC 1/4# Flocele</u>	<u>1.34</u>	<u>14.8</u>

### PRESSURES IN PSI

### SUMMARY

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 4430 REASON Insert float

PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL.: BBL.-GAL. 116.6  
CEMENT SLURRY: BBL.-GAL. 215.4 - 38.1  
TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_  
REMARKS \_\_\_\_\_

RECEIVED  
CORPORATION COMMISSION  
MAR 3 1 1995  
VOLUMES

CUSTOMER Andorke PET  
LEASE Hanke  
WELL NO. B-3  
JOB TYPE 8 7/8 surface  
DATE 1-24-95



JOB LOG HAL-2013-C

CUSTOMER Aardank PET	WELL NO. B-3	LEASE Honke	JOB TYPE 8 7/8 Surface	TICKET NO. 706226
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2000							Called out for 2300
	2230							on location
	2250							Cement on location
								Rig up
								Safety meeting
	0015							Lay down drill pipe
	0030							Run pipe
	0145							Drop Ball
	0150							Circulate with Rig Pump
	0215							Hook up cement line
	0220	6	215.4				200	Start Lead cement
	0255	6	38.1				200	Start Tail cement
	0303							Release plug
	0304	6	111.6				150/500	Displace plug
	0325	1					1000	Land plug
	0327							Release psi check float Ok
								Circulated cement 576 bbl
								137 SKS
								Gave mds sheets to Dave Gilmore

RELEASED

APR 22 1996

FROM CONFIDENTIAL

RECEIVED STATE CORPORATION COMMISSION

MAR 31 1995

CONSERVATION DIVISION WICHITA, KANSAS



CHARGE TO: A. J. ...  
 ADDRESS: ...  
 CITY, STATE, ZIP CODE: Liberal, KS 67901

COPY: \_\_\_\_\_  
 No. \_\_\_\_\_  
 TICKET: **706226 - 4**  
 PAGE: 1 OF 1

FORM 1906 R-13

1. SERVICE LOCATIONS	2. WELL/PROJECT NO. <u>B-3</u>	3. LEASE <u>Hunkle</u>	4. COUNTY/PARISH <u>STURGEON</u>	5. STATE <u>KS</u>	6. CITY/OFFSHORE LOCATION	7. DATE <u>2-25-95</u>	8. OWNER <u>...</u>	
2. TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	3. NITROGEN JOB? <input type="checkbox"/> YES <input type="checkbox"/> NO	4. CONTRACTOR <u>...</u>	5. RIG NAME/NO. <u>...</u>	6. SHIPPED VIA	7. DELIVERED TO <u>...</u>	8. ORDER NO. <u>...</u>	9. ...	
3. WELL TYPE <u>01</u>	4. WELL CATEGORY <u>...</u>	5. JOB PURPOSE <u>...</u>	6. WELL PERMIT NO. <u>189-258015</u>	7. WELL LOCATION <u>914-315-250</u>	REFERRAL LOCATION			INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DP		QTY.	U/M	QTY.	U/M	
60-117		1			MILEAGE 7131	62	1/100	2.75		170.50
020-018		1	CONFIDENTIAL		...	1734	1/100			173.40
12-24	825-217	1	CONFIDENTIAL		Guide Stone	1	EA			1.00
24-43	815-19502	1	CONFIDENTIAL		Insect Flant	1	EA			1.71
27	815-19415	1	CONFIDENTIAL		Fill Tube	1	EA			5.58
40	806-61043	1	CONFIDENTIAL		Control Valve	5	EA	15.00		32.50
320	816-7-10	1	CONFIDENTIAL		Bucket	1	EA			12.20
350	890-10802	1	CONFIDENTIAL		...	1	EA			24.00

RELEASED  
 APR 22 1996

FROM CONFIDENTIAL ORIGINAL

**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.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: X

DATE SIGNED: 1-24-95 TIME SIGNED: 2:12

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

TYPE LOCK	DEPTH	<b>SURVEY</b> <input type="checkbox"/> AGREE <input type="checkbox"/> UN-DECIDED <input type="checkbox"/> DIS-AGREE 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 <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND	PAGE TOTAL: <u>2524 100</u> FROM CONTINUATION PAGE(S): <u>10629 56</u> TOTAL: <u>12153 56</u> SUB-TOTALS APPLICABLE TAXES WILL BE ADDED ON INVOICE
BEAN SIZE	SPACERS		
TYPE OF EQUALIZING SUB.	CASING PRESSURE		
TUBING SIZE	TUBING PRESSURE		
TREE CONNECTION	TYPE VALVE		

**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): \_\_\_\_\_  
 CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): X  
 HALLIBURTON OPERATOR/ENGINEER: ... EMP # \_\_\_\_\_  
 HALLIBURTON APPROVAL: \_\_\_\_\_









JOB LCG HAL-2013-C

CUSTOMER Anadarko	WELL NO. B-3	LEASE Hank	JOB TYPE 055	TICKET NO. 706038
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	07:00							Call out Ready 11:30
	11:00							on loc Rig on way Down D.P
	13:00							Rig up Passes
	13:10							run CSG 5 1/2 15.5 ft
	15:12							Cir Hole T.I.H
	17:30							Put Part Collar in 64 ft Top of T.I.H. 1 stop Cir Hole 16:00-16:15
	18:00							TD Hook-up Cir Hole cond mud
	18:05	6	20	2		260	28 KCL H <sub>2</sub> O	ORIGINAL
		"	30	"		"	Mud flush	
		"	20	"		"	28 KCL H <sub>2</sub> O	
		"	16.3	"		300	50 SK 50/50 P02 "4" 12 1/2 gal	
		"		"		300	190 SK 50/50 P02 "4" 14.5 1/2 gal	
	18:30		43.9			0	Stop	Wksh-up To Pt Drop 5-w Plug
	18:35	6				130	Displ w H <sub>2</sub> O	
		2	12.8			120		
	19:00		138.5			750	Plug Down float Holding	

CONFIDENTIAL

RELEASED

APR 22 1996

FROM CONFIDENTIAL

Thank You Tim & Crew



HALLIBURTON ENERGY SERVICES

FORM 1906 R-13

CHARGE TO: Agard-ko Pet. Corp.  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

COPY

No.

TICKET WP  
 706038 - **3**

ORIGINAL

PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>255446 L. Bessant ks</u>	WELL/PROJECT NO. <u>B-3</u>	LEASE <u>Hanke</u>	COUNTY/PARISH <u>Stevens</u>	STATE <u>Ks</u>	CITY/OFFSHORE LOCATION	DATE <u>2-4-95</u>	OWNER <u>Same</u>
2. <u>2024535 Hagan ks</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR	RIG NAME/NO.	SHIPPED <u>YES</u>	DELIVERED TO <u>Loc Sewell Satanta ks</u>	ORDER NO.
3.	WELL TYPE <u>02</u>	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>035</u>	WELL PERMIT NO.	WELL LOCATION <u>14-315-35 W</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	<b>CONFIDENTIAL</b>	1			MILEAGE	62	mi	1	KA	2.75	170.50
001-016		1			Pump Change	5850	hr	6	hr		2,000.00
030-018		1			5-1/2 Plug	5	in	1	in		65.00
314-163		1			Clay Fix II	5	gal			24.00	120.00
018-315		1			Mod flush	1260	gal			0.65	819.00
12 A		805. 205	1		Guide Shoe	5	in	1	in		
24 A	815. 19251	1		insert float	"	"	"	"			110.00
27	815. 19311	1		fill-up Assy	"	"	"	"			55.00
40	806. 6022	1		Centralizers	5	in	12	in	60.17		720.00

<b>LEGAL TERMS:</b> Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, <b>PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY</b> provisions. CUSTOMER OR CUSTOMER'S AGENT SIGNATURE <u>X John Skoog</u> DATE SIGNED <u>2-4-95</u> TIME SIGNED <u>12:00</u> <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M. <input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		<b>SURVEY:</b> AGREE <input checked="" type="checkbox"/> UN-DECIDED <input type="checkbox"/> DIS-AGREE <input type="checkbox"/>			PAGE TOTAL <b>4180.50</b>  FROM CONTINUATION PAGE(S) <b>4,060.33</b>  <b>8,240.83</b>  SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE
	TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND	

**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>John Skoog</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>X John Skoog</u>	HALLIBURTON OPERATOR/ENGINEER <u>Tim Bohannon</u>	EMP # <u>87748</u>	HALLIBURTON APPROVAL
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# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

MID CONTINENT AREA  
LIBERAL KS.

M. Harvey  
BILLED ON TICKET NO. 706410

WELL DATA

FIELD LAHEY SEC 14 TWP 31S RNG 35W COUNTY STEVENSON 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 BIKER PORT COLLAR SET AT 3120

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	15.5	5 1/2	GL.	3120+	
LINER						
TUBING	U	4.6	2 3/8	GL.	3120	
OPEN HOLE						SHOTS/FT.
<del>PICKLE JOB</del>		4.6	2 3/8	GL	5713	
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

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

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-23-95</u>	DATE <u>2-23-95</u>	DATE <u>2-23-95</u>	DATE _____
TIME <u>1030</u>	TIME <u>1300</u>	TIME <u>1555</u>	TIME _____

MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API \_\_\_\_\_

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API \_\_\_\_\_

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB \_\_\_\_\_

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB \_\_\_\_\_

ACID TYPE 15% 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. APR 22 1996

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 \_\_\_\_\_

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T. BROADFOOT</u>	<u>38242</u>	<u>LIBERAL Ks.</u>
<u>T. DAVIS</u>	<u>52947</u>	<u>"</u>
<u>G. McINTYRE</u>	<u>3626</u>	<u>HUGOTON Ks.</u>
<u>W. BOECK</u>	<u>5302</u>	<u>LIBERAL Ks.</u>
	<u>2577</u>	
	<u>5293</u>	

ORIGINAL

DEPARTMENT CEMENT

DESCRIPTION OF JOB CEMENT PORT COLLAR PICKLE JOB WITH 15% HCL ACID

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

CUSTOMER REPRESENTATIVE X [Signature]

HALLIBURTON OPERATOR [Signature] COPIES REQUESTED \_\_\_\_\_

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	90	MIDCON 2		B		2.00	12.8

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

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. BBL.-GAL. 11.7 BBL

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY BBL.-GAL. 32

HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_ CEMENT LEFT IN PIPE \_\_\_\_\_

REMARKS AFTER cmt job REVERSE OUT RUN Tbg to bottom PICKLE JOB WITH 15% HCL ACID. 5713 FT.

FEET \_\_\_\_\_ REASON \_\_\_\_\_

CUSTOMER: AMARAKO Petroleum Corp. LEASE: HANKE

WELL NO: 8-3

JOB TYPE: CMT. PORT COLLAR

DATE: 2-23-95

**JOB LOG** HAL-2013-C

 CUSTOMER **ANADARKO PETROLEUM CORP** WELL NO. **B-3** LEASE **HANKE** JOB TYPE **CEMENT PORT COLLAR** TICKET NO. **706410**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1030							CALLED OUT READY 1330
	1300							ON LOCT. RUNNING Tbg.
	1530							ACID ON LOCT.
	1555							Hook up to Tbg.
	1605	1	1			0	1000	PRESSURE TEST Tbg - CSG.
	1606							SHUT DOWN BLEED PRESSURE TO
	1609							200psi SET IN TOOL OPEN
	1612	4.5	20			0	900	START INJECTION RATE
	1617							CIRCULATION TO PIT 13BBL OUT
	1618	5.5	32			0	900	START PUMPING CMT 12.8#/GAL
	1624	5.5	11.7			0	1150	START DISPLACEMENT H <sup>2</sup> O
	1626	0	0			0	0	SHUT DOWN PULL OUT OF TOOL
								37T PRESSURE TEST
	1629	.5	.5			0	1000	PRESSURE TEST Tbg CSG.
	1630							DROP Tbg BELOW TOOL JTI.
	1640	4	15			0	500	REVERSE OUT DOWN ANNULAS up
								Tbg.
	1644					0	0	SHUT DOWN RUN Tbg DOWN TO
								57137T FOR PICKLE ACID JOB
								200gal 15% HCL ACID.
	1808							Hook up to START ACID
	1816	.5	4.8			0	0	START ACID
	1826	.5	22					START DISPLACEMENT H <sup>2</sup> O -
	1908							SHUT DOWN CHANGE LINES REVERSE
								OUT
	1910	2.5	50			200	1000	START REVERSE OUT RETURN TO
								FRAC TANK
	1930					0	0	SHUT DOWN JOB OVER
								THANKS FOR CALLING
								HALLIBURTON ENERGY SERVICES
								LIBERAL KS.
								HAVE A GOOD DAY
								BROADFOOT-MEINTYRE-DAVIS
								BOECK

 RELEASED  
 APR 22 1996

FROM CONFIDENTIAL