

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

ORIGINAL

API NO. 15- ~~CONFIDENTIAL~~ 189-21560-0000

County Stevens

E/2- SE - NW - Sec. 13 Twp. 31S Rge. 35 X E/W

1980 Feet from S(N) (circle one) Line of Section

2310 Feet from E(U) (circle one) Line of Section

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

Lease Name Hanke "A" Well # 2

Field Name Lahey

Producing Formation Morrow

Elevation: Ground 2940.2 KB NA

Total Depth 5900 PBDT 5500

Amount of Surface Pipe Set and Cemented at 1754 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cat.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content 800 ppm Fluid volume 5000 bbls

Dewatering method used Natural Evaporation

Location of fluid disposal if hauled offsite:

Operator Name RELEASED

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. 31S Rng. _____ E/W

County Stevens ~~CONFIDENTIAL~~

Operator: License # 4549

Name: Anadarko Petroleum Corporation

Address P. O. Box 351

City/State/Zip Liberal, Kansas 67905-0351

Purchaser: Texaco Trading & Transportation Co.

Operator Contact Person: J. L. Ashton

Phone (316) 624-6253

Contractor: Name: Norseman Drilling, Inc.

License: 03779

Wellsite Geologist: NA

Designate Type of Completion

X New Well _____ Re-Entry _____ Workover

X Oil _____ SWD _____ SIOW _____ Temp. Abd.

_____ Gas _____ ENHR _____ SIGW

_____ Dry _____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

_____ Deepening _____ Re-perf. _____ Conv. to Inj/SWD

_____ Plug Back _____ PBDT

_____ Commingled _____ Docket No. _____

_____ Dual Completion _____ Docket No. _____

_____ Other (SWD or Inj?) _____ Docket No. _____

9-10-93 9-20-93 11-1-93
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 Beverly J. Williams
Title Technical Assistant Date 11-17-93

Subscribed and sworn to before me this 17th day of November 1993.

Notary Public Cheryl Steers

Date Commission Expires _____

CHERYL STEERS
Notary Public - State of Kansas
My Appt. Expires 6-1-97

RECEIVED FOR USE ONLY
STATE CORPORATION COMMISSION
C _____ Wireline Log Received
C _____ Geologist Report Received
NOV 22 1993
Distribution
KANSAS CONSERVATION DIVISION
Wichita, Kansas
SD/Rep _____ NGPA
Plug _____ Other _____
(Specify)

Operator Name Anadarko Petroleum Corporation Lease Name Hanke "A" Well # 2
 Sec. 13 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:

Log Formation (Top), Depth and Datum Sample
 Name Top Datum

SEE ATTACHMENT

001

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8	24	1754	Pozmix & Common	825	4% tot gel 2% cc 2% cc
Production	7 7/8	5 12/	15.50	5900	Pozmix	585	6% tot gel, .75% fric red, #/sx
			DV Tool	3096	Pozmix	125	flocle, 5#/sx gilsonite, 10% salt. 6% tot gel.

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	5542-46, 5552-60		A/1800 gals 15% fe acid & 30 BS.
4	Set CIBP 5500 5342-68, 5326-42			
4	5350-68			

TUBING RECORD Size 2 7/8 Set At 5324 Packer At - Liner Run Yes No

Date of First, Resumed Production, SUD or Inj. 10-24-93 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil 88 Bbls. Gas 0 Mcf Water 0 Bbls. Gas-Oil Ratio - Gravity 41.6 @ 60°

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 5326-42

ATTACHMENT

CONFIDENTIAL

ORIGINAL

CONFIDENTIAL

HANKE A-2
SECTION 13-31S-35W
STEVENS COUNTY, KANSAS

API # 15-189-21560

<u>NAME</u>		<u>TOP</u>
B/STONE CORRAL	KCC	1766
CHASE		2570
HEEBNER	NOV 18	4035
TORONTO		4053
LANSING	CONFIDENTIAL	4145
KANSAS CITY		4617
MARMATON		4802
CHEROKEE		4973
ATOKA		5147
MORROW FORMATION		5307
MORROW SAND ZONE		5326
CHESTER		5410
STE. GENEVIEVE		5600
ST. LOUIS		5653
TD		5900

RELEASED

DEC 2 2 1994

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION

NOV 22 1993

CONSERVATION DIVISION
Wichita, Kansas

CONFIDENTIAL

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

ORIGINAL

WELL NAME: HANKE "A" NO. 2
SECTION 13-31S-35W
STEVENS COUNTY, KANSAS

COMMENCED: SEPTEMBER 10, 1993

COMPLETED: SEPTEMBER 20, 1993

OPERATOR: ANADARKO PETROLEUM CORPORATION

API #15-189-21560

KCC

NOV 18

CONFIDENTIAL

Depth		Formation	Remarks
From	To		
0	1159	Sand & Redbed	Ran 42 jts of 24# 8 5/8" csg set @ 1754'; w/675 SX of 50/50 pozmix-4% Gel-2%CC Tailed with 200 SX Class H-3%CC Job complete at 7:30 a.m. 09/11/93.
1160	1340	Glorietta Sand	
1341	2375	Redbed	
2376	5900	Line-Shale	

RELEASED
DEC 22 1994

FROM CONFIDENTIAL

Ran 5 1/2" 15.50#,
Set @ 5900'; Cement
w/50 SX 65/35 Pozmix
Class H; 6% Gel;
.075 D-60; Tailed w/
535 SX 50/50 Pozmix
1/2# SX D-29 + 0.3%
1/4 SX Celloflake
5# SX Gilsomite
10% Salt 2% C.C.
Plug down @ 11:00
a.m. on 09/20/93

STATE OF KANSAS

COUNTY OF SEDGWICK

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.

NORSEMAN DRILLING
NOV 22 1993

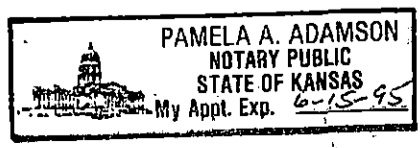
James P. Reilly
JAMES P. REILLY, PRESIDENT
CONSERVATION DIVISION
Wichita, Kansas

Subscribed & sworn to before me this 21st day of September, 1993.

My Appointment Expires:

June 15, 1995

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



CUSTOMER COPY

INVOICE



HALLIBURTON ENERGY SERVICES

ORIGINAL

CONFIDENTIAL

REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046

INVOICE NO.	DATE
507674	09/19/1993

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
HANKE A-2		STEVENS		KS	ANADARKO
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
LIBERAL	N/A	CEMENT PRODUCTION CASING		09/19/1993	
AGCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
019595	STEVE RIDENOUR		33876	COMPANY TRUCK	57107

ANADARKO PETROLEUM CORP
P. O. BOX 351
LIBERAL, KS 67905-0351

KCC

NOV 18

CONFIDENTIAL

DIRECT CORRESPONDENCE TO:
OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2000
OKLAHOMA CITY, OK 73102-5601

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE	60	MI	2.75	165.00
		1	UNT		
007-013	MULT STAGE CEMENTING-1ST STAGE	5900	FT	1,850.00	1,850.00
001-016		1	UNT		
007-161	MULT STAGE CEMENTING-ADD STAGE	1	STG	1,295.00	1,295.00
		1	UNT		
12A	GUIDE SHOE - 5 1/2" 8RD THD.	1	EA	121.00	121.00
825.205					
24A	INSERT FLOAT VALVE - 5 1/2"8RD	1	EA	110.00	110.00
815.19251					
27	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	55.00	55.00
815.19311					
40	CENTRALIZER 5-1/2" X 7 7/8"	13	EA	44.00	572.00
807.93022					
320	CEMENT BASKET 5 1/2"	1	EA	110.00	110.00
800.8883					
71	MULT STAGE CMTR-5-1/2 8RD	1	EA	2,450.00	2,450.00
813.80300					
75	PLUG SET - FREE FALL - 2-STAGE	1	EA	460.00	460.00
813.16510					
018-315	MUD FLUSH	2,000	GAL	.65	1,365.00
218-738	CLAYFIX II	3	GAL	24.00	72.00
504-118	CEMENT - HALL. LIGHT PREMIUM	175	SK	8.05	1,408.75
504-131	CEMENT - 50/50 POZMIX PREMIUM	535	SK	6.92	3,702.20
507-153	CFR-3	33	LB	4.85	160.05
507-210	FLOCELE	134	LB	1.40	187.60
508-291	GILSONITE BULK	2675	LB	.40	1,070.00
509-968	SALT	2652	LB	.13	344.76
350	HALLIBURTON WELD-A	1	LB	.145	14.50
890.10802					
500-207	BULK SERVICE CHARGE				1,094.85
500-306	MILEAGE CMTG MAT DEL OR RETURN	674.71	TM	.95	640.97

2855-2040
RELEASED
DEC 22 1994

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION
NOV 22 1993

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

CONSERVATION DIVISION
Wichita, Kansas

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

CUSTOMER COPY
INVOICE



HALLIBURTON
ENERGY SERVICES

ORIGINAL

CONFIDENTIAL

INVOICE NO.	DATE
507674	09/19/1993

WELL LEASE NO./PROJECT HANKE A-2		WELL/PROJECT LOCATION STEVENS		STATE KS	OWNER ANADARKO
SERVICE LOCATION LIBERAL	CONTRACTOR N/A	JOB PURPOSE CEMENT PRODUCTION CASING			TICKET DATE 09/19/1993
ACCT. NO. 019595	CUSTOMER AGENT STEVE RIDENOUR	VENDOR NO. 1-181-1156	CUSTOMER P.O. NUMBER 33876	SHIPPED VIA COMPANY TRUCK	FILE NO. 57107

ANADARKO PETROLEUM CORP.
P. O. BOX 351
LIBERAL, KS 67905-0351

KCC
NOV 18
CONFIDENTIAL

DIRECT CORRESPONDENCE TO:
OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2000
OKLAHOMA CITY, OK 73102-5601

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	INVOICE SUBTOTAL				17,248.68
	DISCOUNT-(BID)				5,519.56-
	INVOICE BID AMOUNT				11,729.12
	*-KANSAS STATE SALES TAX				405.07
	*-SEWARD COUNTY SALES TAX				82.69
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$12,216.88

2855-2000
161

RELEASED

DEC 22 1994

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION

NOV 22 1993

CONSERVATION DIVISION
Wichita, Kansas

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

CUSTOMER COPY

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046



INVOICE

INVOICE NO.	DATE
507622	09/11/1993

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
HANKE A-2	STEVENS	KS	SANE
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
LIBERAL		CEMENT SURFACE CASING	09/11/1993
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
019595	STEVE RIDENOUR		33876
			SHIPPED VIA
			COMPANY TRUCK
			FILE NO.
			56420

ANADARKO PETROLEUM CORP
P. O. BOX 351
LIBERAL, KS 67905-0351

KCC
NOV 18
CONFIDENTIAL

DIRECT CORRESPONDENCE TO:
OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2000
OKLAHOMA CITY, OK 73102-5601

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE	20 MI		2.75	55.00
		1 UNT			
001-016	CEMENTING CASING	1779 FT		1,220.00	1,220.00
		1 UNT			
030-016	CEMENTING PLUG 5W ALUM TOP	8 IN		120.00	120.00 *
		1 EA			
12A	GUIDE SHOE - 8 5/8" 8RD THD.	1 EA		216.00	216.00 *
825.217					
24A	INSERT FLOAT VALVE - 8 5/8"	1 EA		171.00	171.00 *
815.19502					
27	FILL-UP UNIT 7"- 8 5/8"	1 EA		55.00	55.00 *
815.19415					
40	CENTRALIZER 8-5/8" X 12.25"	3 EA		72.00	216.00 *
807.93059					
320	CEMENT BASKET 8 5/8"	1 EA		122.00	122.00 *
800.8888					
350	HALLIBURTON WELD-A	1 LB		14.50	14.50 *
890.10802					
504-131	CEMENT - 50/50 POZMIX PREMIU	625 SK		6.92	4,325.00 *
507-277	HALLIBURTON GEL BENTONITE	11 SK		15.50	170.50 *
504-043	CEMENT - PREMIUM	200 SK		8.95	1,790.00 *
509-406	ANHYDROUS CALCIUM CHLORIDE	15 SK		28.25	423.75 *
500-207	BULK SERVICE CHARGE	877 CFT		1.35	1,183.95 *
500-306	MILEAGE CMTG MAT DEL OR RETU	746 TMI		.95	708.70 *

RELEASED

INVOICE SUBTOTAL

DEC 22 1994

10,791.40

DISCOUNT - (BID)

INVOICE BID AMOUNT FROM CONFIDENTIAL

3,757.78-

7,033.62

*-KANSAS STATE SALES TAX

304.66

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

RECEIVED
STATE CORPORATION COMMISSION
NOV 22 1993
CONSERVATION DIVISION
Wichita, Kansas

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

CUSTOMER COPY

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046



INVOICE

ORIGINAL

CONFIDENTIAL

INVOICE NO:	DATE:
507622	09/11/1993

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
HANKE A-2		STEVENS		KS	SAME
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE	
LIBERAL				CEMENT SURFACE CASING	
				TICKET DATE	
				09/11/1993	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
019595	STEVE RIDENOUR		33876	COMPANY TRUCK	56420

DIRECT CORRESPONDENCE TO:

ANADARKO PETROLEUM CORP
P. O. BOX 351
LIBERAL, KS 67905-0351

KCC

NOV 18

CONFIDENTIAL

OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2000
OKLAHOMA CITY, OK 73102-5601

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	*--SEWARD COUNTY SALES TAX				62.20
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$7,400.48

2855
KA
20110

RELEASED

DEC 22 1994

FROM CONFIDENTIAL

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.