

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

API NO. 15- **CONFIDENTIAL** 189-21,5600001

County Stevens

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

Operator: License # 4549

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

Name: Anadarko Petroleum Corporation

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

Address P. O. Box 351

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

City/State/Zip Liberal, KS 67905-0351

Lease Name HANKE "A" Well # 2

Purchaser: Texaco Trading & Transportation Co.

Field Name Lahey

Operator Contact Person: J. L. Ashton

Producing Formation Chester

Phone (316) 624-6253

Elevation: Ground 2940.2 KB -

Contractor: Name: NA **RELEASED**

Total Depth 5900 PBTB 5601

License: NA

Amount of Surface Pipe Set and Cemented at 541754 Feet

Wellsite Geologist: NA **JUN 28 1995**

Multiple Stage Cementing Collar Used? Yes No

Designate Type of Completion **FROM CONFIDENTIAL**
Re-Entry Workover

If yes, show depth set _____ Feet

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

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

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

Drilling Fluid Management Plan REWORK J7 11-2-94
(Data must be collected from the Reserve Pit)

NOT APPLICABLE

Operator: Anadarko Petroleum Corporation

Chloride content _____ ppm Fluid volume _____ bbls

Well Name: Hanke "A" No. 2

Dewatering method used _____

Comp. Date 11/1/93 Old Total Depth 5900

Location of fluid disposal Handled offsite

SQUEEZED
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back 5601 PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

Operator Name KCC **MAY 24 1994**

Lease Name MAY 2 4 **CONSERVATION DIVISION WICHITA, KS**

Spud Date NA Date Reached TD 5/4/94 Completion Date NA

County _____ Docket No. _____

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.

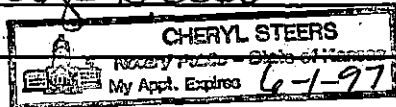
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Leslie I. Barnes
Title Sr. Technical Assistant Date 5/18/94

Subscribed and sworn to before me this 18th day of May 19 94.

Notary Public Cheryl Steers

Date Commission Expires _____



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)

PI

1000

Operator Name Anadarko Petroleum Corporation Lease Name HANKE "A" Well # 25

Sec. 13 Twp. 31S Rge. 35

East
 West

County Stevens

ORIGINAL

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 ORIGINAL AC0-1

RELEASED

APR 8 5 11L

CASING RECORD

ORIGINAL COMPLETION

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	1754	Pozmix & Common	825	4% tot gel, 2% cc 2% cc
Production	7 7/8	5 1/2	15.5	5900	Pozmix	585	6% tot gel, .75% Fric red, 1#/sx
			DV TOOL	3096	Pozmix	125	Flocele, 5#/sx silsonite, 10% salt 6% tot gel.

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input checked="" type="checkbox"/> Plug Off Zone	5326'	5368'	CLASS H	50	2% CaCl ₂

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	
	SEE ATTACHMENT		SEE ATTACHMENT	
2	5542' - 5546'	5552' - 5560'		

TUBING RECORD		Size	Set At	Packer At	Liner Run		
		2 7/8	5506		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Date of First, Resumed Production, SWD or Inj.			Producing Method				
4/19/94			<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	Bbls.	Gas	Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	34		12		6		

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
5542-5560

ORIGINAL

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ATTACHMENT

Hanke "A" No. 2
Section 13-31S-35W
Stevens County, Kansas

KCC

MAY 2 4

CONFIDENTIAL

NPI# 15-189-21560-0001

Shots Per Foot

Perfortaion Record

Acid, Fracture, Shot, Cement Squeeze Record

4

5350-5368, 5342-68,
5326-42 (Sqz)

1st attempt unsuccessful. Spot 300 gals xylene across perfs.
Set pkr @ 5200. Spot 500 gals 15% HCL across perfs. Pmpd
2 BPM @ 1400#. Pmpd 50 sxs lwl cmt. Sqzd perfs to 2200#.
Rls pkr. TIH w/bit, scraper & 2 7/8 tbg. Tag cmt @ 5216,
DO cmt to 5320. TOH w/tbg, scraper, bit.

2

DO CIBP to 5700, Lwr tbg to 5601'.
5542-46, 5552-60

Frac dwn ws w/49,500 gals 35# x-linked gelled 2% KCL wtr &
241,840# 16/30 Ottawa sd. FL w/2000 gals gelled 2% KCL wtr.

RELEASED

JUN 2 8 1995

FROM CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 2 4 1994

CONSERVATION DIVISION
WICHITA, KS

CONFIDENTIAL



HALLIBURTON

ORIGINAL

DATE 3-22-94 PAGE NO 71

JOB LOG FORM 2013 R-41

CUSTOMER: ANADARKO Petroleum WELL NO: 2 LEASE: HANKE A JOB TYPE: RTTS Squeeze TICKET NO: 574944

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	3-21-94							
	1030							Called Out - READY @ 1300 hrs
	1245							od. Loc Hot Oiler pumping hot water to free pump
	1345							unable to free pump back off rods
	1400					RELEASED		TOOTH w/ rods - Back off Top of Pump
	1530					JUN 2 8 1995		Rods od BANK
	1550							Pull Tbg.
	1700					FROM CONFIDENTIAL		Well Kicks - SWAB DOWN TBG
	1800							Pull tbg.
	1900							Released from duty
	3-22-94					NOV		
	0430					MAY 24		Called Out - READY @ 0730 hrs
	0715					CONFIDENTIAL		od. LOCATION
	0755							CEED od LOCATION
	0810							Pull tbg - 2 lbs od ground
	0920							Tbg od back 170 lbs in Derrick
	0940					RECEIVED		PICK UP RTTS (50340-508)
	0950					OPERATION COMMISSION		Tally in hole w/ 169 lbs
						2-1994		1.1' Seating Nipple 2 7/8
								4.0' Tbg. sub 2 7/8
								.8' X-OVER 2 7/8 2 3/8
	1250							Set 4 RTTS @ 3200' w/ 168 lbs
	1310							
		5	50	✓				LOAD ANNULUS - TOP of fluid @ 3150
	1320	1/2		✓		1000	1000	PSI ANNULUS
	1323	3 1/2	17	✓			1000	LOAD Tbg.
	1328	1/2 - 1/4	5	✓		1000 / 1750	1000	INJECTION RATE - 1/4 bbl/min @ 1700 PSI +
	1343							rising stop
	1353	1/4	1	✓		1700	150	Pump
	1357							STOP
	1400	1/4	13/4	✓		2200	950	Pump
	1408							STOP
	1457							WDSEAT PKR

CUSTOMER

ORIGINAL



HALLIBURTON

CONFIDENTIAL

JOB LOG FORM 2013 R-4

DATE 3-22-94 PAGE NO 2

CUSTOMER *ANADARKO Petroleum* WELL NO. *2* LEASE *HANKE A* JOB TYPE *RTTS Squeeze* TICKET NO. *574944*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	RC	TUBING	CASING	
	1419	1	3	-		100	100	Verify Circulation
	1422							mix Cement to spot
	1424	1	3.7	-		500	500	start 25 sk Premium w/ 5/10% THAD 322 downhole @ 16.4 #/gal
	1428	1	3.7	-		1000	1000	start 25 sk Premium downhole @ 16.4 #/gal
	1431							WASH OUT Pumps + Line
	1436	1 1/4	19	-		1000	1000	Place Cement on Spot Thy Disp = 30.1 bbls Cmt. to Spot = 26.4 bbl
	1450					1000	1000	STOP - Set PKR.
	1451						1000	ANNULAR Pressure
	1452	3/10	1.3	-		2500	1000	Displace Cmt
	1509							UNABLE TO Displace Cement due to pressure RESTRICTIONS
	1510							W/SEAT RTTS
	1511	2	45	-		800	800	Reverse Out KOL
	1529							stop - tie onto sales W/20 A
	1540	1/2	32	-		100	100	Pump oil to tank
	1640							stop CONFIDENTIAL
	1615							RELEASED ORDER OUT 300 gal (2.1 bbls) xylene 120 bbls 2% KOL WATER 5 Its 5 1/8 Thy
	1700							JUN 2 8 1995 Release RTTS + run 5 Its
	1725							FROM CONFIDENTIAL PKR hanging @ 5361
	1753	2	50	-		200	200	H ₂ O and xylene on location clean out well - oil + gas out Reverse out
	1828	1	7.1	-		100	100	start 300 gal xylene downhole
	1825	2	28.5	-		150	150	start displacement (H ₂ O)
	1835							STOP - Pull 5 Its
	1840							Set RTTS @ 5200
	1841	1 1/2	1 1/2	-			500	psi ANNULAR
	1842	2/10	1 1/2	-		2500	500	Pressure xylene into perf's
	1848							STOP - NO CHANGE IN RATE
	1915							Released from duty until 0130 3-23-94

CUSTOMER

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HALLIBURTON

ORIGINAL

JOB LOG FORM 2013 R-4

DATE: 3-23-94 PAGE NO: 3

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Anadarko Petroleum		2		Ananke A		Squeeze		574944	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	STUBING	CASING		
	0500							Called	
	0711							On location	
	0730							Requested	
	0735							Water arrives RELEASED	
	0748		1/2		✓		1000	Load annulus JUN 2-8-1995	
	0749		15		✓			Load tubing	
	0752				✓			Tubing loaded FROM CONFIDENTIAL	
		.22			✓		1900	Injection rate	
	0812							Step pumping	
	0850							Order 500 Gal 15% acid	
								25 sk H. 5% Haled 322 - 25 sk H. ordered	
	1015							Run 3 H. 2 1/2" tubing	
								Spot 500 Gal Acid short of RTTs	
	1037	1 1/2	500		✓			Makeup better, get RTTs to tank	
	1039 to 1048							Shut down to hook to flow line	
	1055	1 1/2	33.7 BBL		✓			On Flush	
	1115							Acid pulled - set RTTs at 52	
	1116	.2			✓		2300	Pressure Annulus - continue flush	
	1135	.2			✓		2100	Formation break w/ acid	
	1142							Flush in - Pull 3 H.	
	1155							Set RTTs at 5200 on 168 H.	
	1157		5 1/2		✓		1000	load annulus - pressure up	
	1204	.2	9.4		✓		2100	Start 25 sk H. w/ label 322 - 25 sk H. vent	
	1209	.2			✓		1400	Start displacement	
	1214				✓			Caught cement w/ 9 Bbl in	
	1226				✓		650	Stop pumping w/ 26 1/2 Bbls gone (2 Bbl in zone)	
	1226 to 1238							Took 1 Bbl on vacuum	
	1238		1/2		✓		2200	Pumping to squeeze	
	1239				✓			Pressured up	
	1242				✓		1640/2240	Repressure	
	1249				✓		1600/2200	"	
	1307		1		✓		450	Reverse Out MAY 2 4	
								CONFIDENTIAL	
								Tubing clean	
								Pull 2 H.	
	1339							Set RTTs at 5137	
	1341		1.5		✓			Pressure Annulus	
	1342		.2		✓			Pressure tubing	

CUSTOMER



HALLIBURTON

JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Mid West
Liberal, Ks

BILLED ON TICKET NO. 574944

WELL DATA
FIELD: Lahey SEC: 13 TWP: 31S RING: 35W COUNTY: Stebens STATE: Ks

FORMATION NAME: Morrow
FORMATION THICKNESS: FROM TO
INITIAL PROD. OIL BPD WATER
PRESENT PROD. OIL BPD WATER BPD GAS
COMPLETION DATE: 10-93 MUD TYPE MUD WT
PACKER TYPE: RTS (50340 508) SET AT
BOTTOM HOLE TEMP PRESSURE
MISC DATA: CIBP@ 5500 TOTAL DEPTH

NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	15.50	5 1/2	6L	5900	
LINER					
TUBING	16.5	2 7/8	6L		
OPEN HOLE					SHOTS/FT
PERFORATIONS			5350	5368	4
PERFORATIONS					
PERFORATIONS					

TOOLS AND ACCESSORIES

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

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE: 3-21-94 TIME: 1030	DATE: 3-21-94 TIME: 1245	DATE: 3-22-94 TIME: 0930	DATE: TIME:

NAME	UNIT NO. & TYPE	LOCATION
Jeff Clark #11281	40089 pu	Liberal, Ks
John Woodrow	pu	"
Rod Crist Dr. 7653	ROM (P)	"
Kevin Willich F. 7342	Body load	"
Juan Marin F. 4549	Bank	Hugoton, Ks

JUN 2 1995
MATERIALS
TREAT FLUID DENSITY LB/GAL OAPI
DISPL FLUID DENSITY LB/GAL OAPI
PROP. TYPE SIZE LB
ACID TYPE GAL
NE AGENT TYPE GAL
FLUID LOSS ADD. TYPE GAL-LB IN
GELLING AGENT TYPE GAL-LB IN
ERIC RED. AGENT TYPE GAL-LB IN
BREAKER TYPE GAL-LB IN
BLOCKING AGENT TYPE GAL-LB
PERFAC BALLS TYPE QTY
OTHER
OTHER

DEPARTMENT: Tools
DESCRIPTION OF JOB: Run RTS to squeeze off Morrow Arts
JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN
CUSTOMER REPRESENTATIVE: X
HALLIBURTON OPERATOR: Jeff Clark
COPIES REQUESTED:

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK	MIXED LBS./GAL
	25	Premium		B	KOC	1.06	76.4
	25	Premium		B	MAY 2 4	1.06	76.4

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 20.14
CEMENT SLURRY: BBL GAL 7.6
TOTAL VOLUME: BBL GAL
REMARKS

CUSTOMER: HADAMKO Petroleum Corp
LEASE: HANKE
WELL NO.: 2
JOB TYPE: RTS - Squeeze
DATE: 3-22-94



HALLIBURTON

HALLIBURTON ENERGY SERVICES

CONFIDENTIAL

TICKET CONTINUATION

CUSTOMER COPY

139

TICKET

No. 677068

CUSTOMER
APC

WELL
Hanky

DATE
3-22-94

PAGE OF

FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			DESCRIPTION	WELL				UNIT PRICE		AMOUNT
		LOG	ACCT.	DF		QTY.	U/M	QTY.	U/M			
504-043	516.00272				Premium Cement	50	sk			9	44	472 00
507-775	516.00144				Halad-322 5/10s/25sk	12	lb			7	00	84 00
<p>RELEASED JUN 28 1995 FROM CONFIDENTIAL</p> <p>NCC MAY 24 CONFIDENTIAL</p> <p>ORIGINAL</p>												
500-207					SERVICE CHARGE	CUBIC FEET 50				1	35	67 50
500-306					MILEAGE CHARGE	TOTAL WEIGHT 4712	LOADED MILES 19	TON MILES 44.76		95		42 53

No. B 235448

CONTINUATION TOTAL

666



HALLIBURTON

HALLIBURTON ENERGY SERVICES

ORIGINAL

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 1217005

CUSTOMER APC WELL Hanky DATE 3-23-94 PAGE 147 OF

FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-043	516.00272				Premium Cement	50	sk			9.44	472.00
507-775	516.00144				Halad - 322 5/108/25sk	12	lb			7.00	84.00
<p>CONFIDENTIAL</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">RELEASED JUN 2 8 1995 FROM CONFIDENTIAL</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">KCC MAY 2 4 CONFIDENTIAL</p>											

500-207

SERVICE CHARGE

CUBIC FEET

50

135

67.50

00-306

MILEAGE CHARGE

TOTAL WEIGHT 4712

LOADED MILES

19

TON MILES

1

44.76

1.95

42.53

O. B 235456

CONTINUATION TOTAL

666.53