

FORM MUST BE TYPED

SIDE ONE

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 SICW 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 PBSD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

9-23-96 10-2-96 11-6-96

Spud Date Date Reached TD Completion Date

API NO. 15- 175-21565

County SEWARD

SE - NW Sec. 10 Twp. 34 Rge. 34 X W

1980 Feet from N (circle one) Line of Section

1980 Feet from X (circle one) Line of Section

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

Lease Name WETTSTEIN "A" Well # 4

Field Name ADAMSON

Producing Formation STE. GENEVIEVE

Elevation: Ground 2917.2 KB --

Total Depth 6600 PBSD 6402

Amount of Surface Pipe Set and Cemented at 1674 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 3151 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Att. 10-6-98 v.c.
(Data must be collected from the Reserve Pit)

Chloride content 1000 ppm Fluid volume 700 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. _____

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 Bruce Darlington
Title DRILLING ENGINEER Date 12-13-96

Subscribed and sworn to before me this 13th day of December 1996.

Notary Public L. Marc Harvey
Date Commission Expires _____
L. MARC HARVEY
Notary Public - State of Kansas
My Appt. Expires 6-13-97

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)
9/11/97

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name WETTSTEIN "A" Well # 4

Sec. 10 Twp. 34 Rge. 34 East West County SEWARD

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: CBL-GR, DIL, CNL-LDT, ML.

Name	Top	Datum
CHASE	2624	
COUNCIL GROVE	2982	
TORONTO	4288	
LANSING	4392	
KANSAS CITY	4970	
MARMATON	5109	
MORROW	5760	
CHESTER	6073	
STE.- GENEVIEVE	6351	
ST. LOUIS	6488	

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	1674	P+ MIDCON 2/ P+	340/100	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8	5-1/2	15.5	6508	VERSASET	140/210	3%CC, .6% HALAD 322 5% KCL, 1/4#SK FLC,
			F. O. TOOL @	3151	MIDCON	60	NEAT

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	6410-24, 6369-94, 6352-66, CIBP @ 6402.	ACID: 2000 GAL 7-1/2% FEHCL	6352-6424 (OA)
		FRAC: 32550 GAL FOAMED GEL & 140,000#	6352-6394 (OA)
		16/30 SD.	

TUBING RECORD	Size 2-3/8	Set At 6255	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. FIRST: 11-11-96 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		706	12		

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 6352-6394 (OA)

KCC

ORIGINAL

15-175-21565

ANADARKO PETROLEUM CORPORATION
WETTSTEIN A-4
SECTION 10-T34S-R34W
SEWARD COUNTY, KANSAS

COMMENCED: 09-23-96
COMPLETED: 10-03-96

SURFACE CASING: 1674' OF 8 5/8" CMTD
W/340SKS PREMIUM PLUS MIDCON + 3% CC
+ 1/4#/SK FLOCELE. TAILED IN W/100 SKS
PREMIUM PLUS + 2% CC + 1/4 #/SK FLOCELE.
1" W/140 SKS PREMIUM PLUS + 3 %

FORMATION	DEPTH
SURFACE HOLE	0 - 1675
RED BED	1675 - 2120
RED BED & SHALE	2120 - 2520
SHALE	2520 - 3230
LIMESTONE & SHALE	3230 - 6600 RTD

RELEASED
OCT 15 1998

FROM CONFIDENTIAL

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

WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 8TH DAY OF OCTOBER, 1996.



JOLENE K. RUSSELL

Jolene K. Russell
NOTARY PUBLIC

KANSAS ELECTRONIC
RECORDS CENTER
OCT 17 4 11:03

WELL DATA

FIELD _____ SEC. *10* TWP. *34* RNG. *34* COUNTY *Seward* 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	<i>10</i>	<i>23</i>	<i>5 7/8</i>	<i>415</i>	<i>1675</i>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>9-24-96</i>	DATE <i>9-24-96</i>	DATE <i>9-24-96</i>	DATE <i>9-25-96</i>
TIME <i>1500</i>	TIME <i>1645</i>	TIME <i>2150</i>	TIME

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <i>1 1/2" x 8 7/8"</i>	<i>1</i>	<i>H</i>
FLOAT SHOE <i>Full up</i>		
GUIDE SHOE <i>Key</i>	<i>1</i>	<i>0</i>
CENTRALIZERS <i>54</i>	<i>5</i>	
BOTTOM PLUG		<i>W</i>
TOP PLUG <i>5W</i>	<i>1</i>	
HEAD <i>PC</i>	<i>1</i>	<i>6</i>
PACKER		
OTHER <i>Baskets</i>	<i>1</i>	<i>0</i>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. ⁹API
 DISPL. FLUID _____ DENSITY _____ LB/GAL. ⁹API
 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 _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
RELEASED		
OCT 15 1996		
FROM CONFIDENTIAL		

DEPARTMENT *CMT*
 DESCRIPTION OF JOB *1172 8 7/8 5.0P.*
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE *X [Signature]*
 HALLIBURTON OPERATOR *[Signature]* COPIES REQUESTED *2*

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<i>1</i>	<i>340</i>	<i>P2 MTC</i>		<i>D</i>	<i>3200 14" #10</i>	<i>3.22</i>	<i>11.1</i>
<i>1</i>	<i>100</i>	<i>PT</i>		<i>D</i>	<i>2700 14" #10</i>	<i>1.32</i>	<i>14.8</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 *41* REASON *shut joint*

SUMMARY

VOLUMES

PRESLUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. *105.4*
 CEMENT SLURRY (BBL.-GAL.) *195 C.C.* *23.5 T.C.*
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS

CUSTOMER

CUSTOMER
 LEASE
 WELL NO.
 JOB TYPE
 DATE



JOB LOG HAL-2013-C

DATE: 9-24-96 PAGE NO: 1

CUSTOMER: APC WELL NO: 1/ LEASE: Wehstein "H" JOB TYPE: 8 7/8 S.P. TICKET NO: 106596

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1500							called out for job.
	1645							on loc. rig string
	1915							start SBOP.
	2010							out of hole with rig up cones
	2030							start 8 7/8 CSB CFE.
								ORIGINAL
	2130							CSB on BOM. Hook up 8 7/8 P.C. & CFE Iron to rig.
	2134							Bck circ. wiring pump.
	2136							circ to pit.
	2141							Then circ. Hook Iron to R.T.
	2148	7.0	195		✓		230	start pumping 340sx pt mc at 11.1%
	2207	6.0	23.5		✓		200	start pumping 100sx pt at 14.8% gpm
	2211				✓		0	Then pumping cmr shut down drop pt
	2212	6.0	105.4		✓		100	start disk.
			105.4		✓			bbls disk cmr to pit
	2227	2.0	105.4		✓		500	90 bbls disk stop rate
	2235	2.0	105.4		✓		500	Load plug.
	2236	0	105.4		✓		500	Release fluid - Held.
	2240							Order 1" cmr 200sx prem
	045							cmr converted.
	0115							stop pumping. cmr at 16.0% gpm
	0145							20 bbls pump discharge for surf area
	0152							Shut down with 30 bbls total pumped. 140sx total cement used.
	0200							Job over Thanks for calling. Tyce John & crew

FROM CONFIDENTIAL

OCT 15 1993

RELEASED

WELL DATA
FIELD _____ SEC. 10 TWP. 34^S RING. 34^W COUNTY. Seward 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			5 1/2	K13	6524	STP 1000 2508
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>5/8</u> <u>Insert Float</u>	<u>1</u>	<u>Houston</u>
FLOAT SHOE <u>5/8</u>	<u>1</u>	<u>Houston</u>
GUIDE SHOE <u>R₂</u>	<u>1</u>	<u>Houston</u>
CENTRALIZERS	<u>14</u>	<u>Houston</u>
BOTTOM PLUG <u>Bot Collar</u>	<u>1</u>	<u>Houston</u>
TOP PLUG	<u>1</u>	<u>Houston</u>
HEAD	<u>1</u>	<u>Houston</u>
PACKER <u>Basket</u>	<u>1</u>	<u>Houston</u>
OTHER <u>Houston A</u>	<u>1</u>	<u>Houston</u>

TREAT. FLUID _____ DENSITY _____ LB/GAL. °API
DISPL. FLUID _____ DENSITY _____ LB/GAL. °API
PROP. TYPE _____ SIZE _____ LB.
PROP. TYPE _____ SIZE _____ LB.
ACID TYPE _____ GAL. **RELEASED**
ACID TYPE _____ GAL. **RELEASED**
ACID TYPE _____ GAL. **RELEASED**
SURFACTANT TYPE _____ GAL. **OUT IN 1998**
NE AGENT TYPE _____ GAL. _____ IN
FLUID LOSS ADD. TYPE _____ GAL. _____ 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 _____

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-2</u>	DATE <u>10-3</u>	DATE <u>10-3</u>	DATE <u>10-3</u>
TIME <u>2340</u>	TIME <u>0115</u>	TIME <u>0740</u>	TIME <u>1000</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Chase</u>	<u>38242</u>	<u>Loradoh Ks</u>
<u>T. Millins</u>	<u>52534</u>	<u>"</u>
<u>Chay</u>	<u>75051</u>	<u>"</u>
<u>Chay</u>	<u>5984</u>	<u>Houston Ks</u>
<u>Chay</u>	<u>77031</u>	<u>Houston Ks</u>

DEPARTMENT Concrete
DESCRIPTION OF JOB 5% 1 1/2" Stg

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>210</u>	<u>PemVesort</u>			<u>9% Vesort 26% Halc 322.5% HCL</u>		
	<u>25</u>	<u>PemVesort</u>			<u>1/4 # Halc 4 Mouse Hole</u>	<u>1.41</u>	<u>14.5</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 142.59 REASON Stop down

SUMMARY
PRESLUSH: BBL-GAL 8 1/2 10 1120
LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____
TREATMENT: BBL-GAL. _____ DISPL. BBL-GAL. 15.8 100
CEMENT SLURRY: BBL-GAL. 52.73
TOTAL VOLUME: BBL-GAL. _____

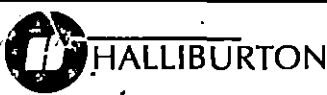
REMARKS

CUSTOMER: [Signature] WELL NO: 147 JOB TYPE: [Signature] DATE: 10-3-98

JOB LOG HAL-2013-C

 CUSTOMER **Amorhaeko Petro Corp** WELL NO. **4#** LEASE **Wellstein A** JOB TYPE **5 1/2" Prod String** TICKET NO. **106276**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				A	B	TUBING	CASING	
	2340							Time Collected
	0300							Time Ready
	0115							Time out of
								Start Running Casing
								RELEASED
	0740							Casing in Hole
								OCT 15 1998
	0740							Hook up to Circulate Casing
	0750							Circulate Casing 1/2" Dia Pump
	0753							Circulate Mud to Ground Level
	0850/0858		2.5/3.7					Hook up Cement 10" max hole 15" 1/2" hole
	0900							Hook up to Pump Truck
	0903	5	8					300 Start Water Ahead
	0905	/	10					300 Start Super Flush
	0907	/	8					300 Start Water Behind
	0909	5.5						Start Mixing Cement
	0917	/	52.73					250 Finish Mixing Cement
	0918	/						150 Shut Down
	0919							Wash Pump's & Lines
	0923	6						150 Start Displacement
		4.2	15.813					
	1000							300/150 Plug Down
								Float Held.
								Circulate Fluid Thru out the slots
								Drop Plug
								Thanks For Calling
								Halliburton
								Dennis Green & Energy
								Crew



JOB SUMMARY

HALLIBURTON DIVISION Mud Co.
 HALLIBURTON LOCATION Pampa, TX.

BILLED ON 985930 KCC
 TICKET NO. 985930

WELL DATA

FIELD _____ SEC _____ TWP _____ RNG _____ COUNTY Seward 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	<u>ind</u>	<u>15.5</u>	<u>5 1/2'</u>	<u>surf</u>	<u>3361</u>	
LINER						
TUBING	<u>ind</u>	<u>4.60</u>	<u>2 3/8</u>	<u>surf</u>	<u>5761</u>	
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-8</u>	DATE <u>10-8</u>	DATE <u>10-8</u>	DATE <u>10-8</u>
TIME <u>03:00</u>	TIME <u>07:50</u>	TIME <u>07:45</u>	TIME <u>10:35</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. W. H.</u>	<u>4502 72 PU</u>	<u>Pampa</u>
<u>H. S. G.</u>		
<u>J. C. G.</u>	<u>11442</u>	<u>11</u>
<u>C. A. H.</u>	<u>52100</u>	
	<u>44061</u>	<u>Angolan Ks.</u>
	<u>50184</u>	

DEPARTMENT 1113

DESCRIPTION OF JOB 205 Pampa 4 1/2

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

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR R. W. H. COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>24 M 1.00</u>	<u>24 M 1.00</u>		<u>24 M 1.00</u>	<u>RELEASED</u>		
					<u>OCT 15 1978</u>		

SUMMARY

PRESSURES IN PSI _____ 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. 1374

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. 311

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____ REMARKS _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

CUSTOMER



JOB LOG HAL-2013-C

CUSTOMER Anaoroka WELL NO. #4 LEASE Wellsteel JOB TYPE 205 Rec. at skz TICKET NO. 985986

Table with columns: CHART NO., TIME, RATE (BPM), VOLUME (BBL) (GAL), PUMPS (T, C), PRESSURE (PSI) (TUBING, CASING), DESCRIPTION OF OPERATION AND MATERIALS. Includes handwritten entries for times 0800-1031 and descriptions like 'called out on loc', 'start and shut down', 'psi on tub.', 'reverse out shut down'. Includes 'ORIGINAL' stamp and 'Thanks for calling Halliburton!!' handwritten note.

RELEASED

OCT 15 1998

FROM CONFIDENTIAL

Handwritten notes and stamps at bottom right, including '10-15-98' and '985986'.