

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

API No. 15- \_\_\_\_\_ 081-20986

County HASKELL

150°E - C - NE - NE Sec. 21 Twp. 29S Rge. 34 X W E

660 Feet from NX (circle one) Line of Section

510 Feet from EX (circle one) Line of Section

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

Lease Name RAY "C" Well # 2

Field Name EUBANK

Producing Formation CHESTER

Elevation: Ground 2976.4 KB --

Total Depth 5600 PBDT 5526

Amount of Surface Pipe Set and Cemented at 1816 Feet

Multiple Stage Cementing Collar Used? X Yes --- No

If yes, show depth set 3130 Feet

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

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

Drilling Fluid Management Plan alt I 6-6-96  
(Data must be collected from the Reserve Pit) Le

Chloride content 3100 ppm Fluid volume 700 bbls

Dewatering method used NATURAL EVAPORATION

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

Operator Name 4-3-96

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: TEXACO TRADING & TRANSPORTATION INC.

Operator Contact Person: J. L. ASHTON

Phone ( 316 ) 624-6253

Contractor: Name: NORSEMAN DRILLING INC.

License: 3779

Wellsite Geologist: NA

Designate Type of Completion  
X New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover

X Oil \_\_\_\_\_ SWD \_\_\_\_\_ SLOW \_\_\_\_\_ Temp. Abd.  
\_\_\_\_\_ Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW \_\_\_\_\_  
\_\_\_\_\_ Dry \_\_\_\_\_ Other (Core, WSW, Expl., Cathodic, etc)

If Workover: **RELEASED**

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_ **SEP 16 1998**

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. \_\_\_\_\_

12-29-95 \_\_\_\_\_ 1-10-96 \_\_\_\_\_ 2-19-96 \_\_\_\_\_  
Spud Date \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date \_\_\_\_\_

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.

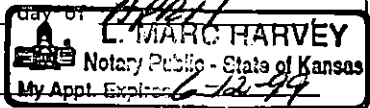
Signature David W. Kapple  
DAVID W. KAPPLE

Title DIVISION DRILLING ENGINEER Date 4/1/96

Subscribed and sworn to before me this 15th day of April 19 96.

Notary Public [Signature]

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)

11/14/96

Operator Name: ANADARKO PETROLEUM CORPORATION Lease Name: RAY "C" Well #: 2

Sec. 21 Twp. 29S Rge. 34  East  West County: HASKELL

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: SBT-CCL-GR, DIL, ML, CNL-LDT, SONIC

Log Formation (Top), Depth and Datums  Sample

Name	Top	Datum
B/STONE CORRAL	1810	
CHASE	2508	
COUNCIL GROVE	2838	
HEEBNER	3966	
LANSING	4046	
MARMATON	4653	
MORROW	5168	
CHESTER	5326	
ST, LOUIS	5448	

**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	12.25	8.625	23	1816	MIDCON 2/ PREM PLUS	305/160	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7.875	5.5	15.5	5578	MIDCON 2/ VERSASET	115/150	1/4#SK FLC, 5%KCL .6%HALAD 322, 5%KCL, .9%VESASET
			FO TOOL @	3130	MIDCON 2	60	3%CC, 1/4#SK FLC.

**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	5428-5448	ACID: 1000 GAL 7-1/2% FEHCL.	5428-5448
1	5371-5415	ACID: 1200 GAL 7-1/2% FEHCL.	5371-5415
		FRAC: 40000 GAL XLINK 2%KCL WTR &	5371-5448
		139000# 16/30 SD.	

**TUBING RECORD** Size 2-3/8" Set At 5358 Packer At \_\_\_\_\_

Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. 3-20-96 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	97	1150	9		

Disposition of Gas: Method of completion Production Interval

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled

(If vented, submit ACO-18.)  Other (Specify) \_\_\_\_\_ 5371-5448 (OA)

CONFIDENTIAL

LMA

ORIGINAL

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

WELL NAME: RAY C-2  
SECTION 21-29S-34W  
HASKELL COUNTY, KANSAS

15-081-20986

COMMENCED: DECEMBER 28, 1995

COMPLETED: JANUARY 12, 1996

RELEASED

SEP 16 1998

FROM CONFIDENTIAL

OPERATOR: ANADARKO PETROLEUM CORPORATION

Depth From	To	Formation	Remarks
0	1240	Sand & Redbed	Ran 44 jts of 23# 8 5/8"
1241	1450	Glorietta Sand	csg set @ 1816'; w/305SX
1451	2794	RedBed	of Midcon 2, 2% CC; 1/4#
2795	5600	Lime & Shale	SX Flocele; Tailed w/160
			SX Premium Plus; 2% CC;
			1/4# SX Flocele; Plug down
			@ 3:30 p.m. on 12/31/95.

RECEIVED  
KANSAS CORP CO. 11:  
1998 APR -3 P 12:19

Ran 136 jts. 5 1/2" csg. 15.5 # set @ 5578'; w/115 SX Midcon; 2% CC; 1/4# SX Flocele  
Tailed w/150SX Premium Plus; 2% CC; 1/4# SX Flocele; Plug down 1:30 a.m. on  
01/11/96.

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  
COUNTY OF SEDGWICK    )records of this office.

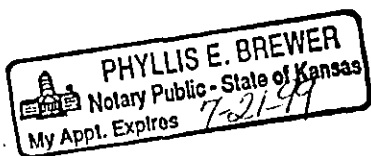
NORSEMAN DRILLING, INC.  
*James P. Reilly*  
JAMES P. REILLY, PRESIDENT

Subscribed & sworn to before me this January 18, 1996

My Appointment Expires:

July 21, 1999

*Phyllis E. Brewer*  
Phyllis E. Brewer, Notary Public  
11817 Jamesburg  
Wichita, KS 67212 (10)





# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

Mid Continent Area  
Liberal ks.

BILLED ON TICKET NO. 919633

KCC

## WELL DATA

FIELD Eubank SEC. 21 TWP. 29S RNG. 34W COUNTY Haskell 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 \_\_\_\_\_

**CONFIDENTIAL**

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	23	<del>2 3/8</del>	KB	<del>1000</del>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**ORIGINAL**

15-081-20986

## JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 12-31	DATE 12-31	DATE 12-31	DATE 12-31
TIME 0630	TIME 0930	TIME 1430	TIME 1530

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR Insert 8 5/8	1	H
FLOAT SHOE Fill Assy 8 5/8	1	
GUIDE SHOE ROF 8 5/8	1	0
CENTRALIZERS 54 8 5/8	5	
BOTTOM PLUG		W
TOP PLUG 5W 8 5/8	1	
HEAD P.C. 8 5/8	1	U
PACKER		
OTHER Basket 8 5/8	1	0

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
T. Davis	420042	Liberal
F4550	P.U.	ks.
W FOX	52823	"
D4437	75374 RUM	"
G.M. ENTIRE	50777	HUGOTON
G 3755	75817	ks.
D. Hamilton	53336	"
G 3090	6612	"

MATERIALS

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

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

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

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 \_\_\_\_\_

**RELEASED**

SEP 16 1998

**FROM CONFIDENTIAL**

DEPARTMENT Cement

DESCRIPTION OF JOB Cement 8 5/8 100 ft

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	100	Pt Midcon		B	3% CC 1/4 #15K F10	3.22	11.1
1	100	Prom Plus		B	2% CC 1/4 #15K F10	1.32	14.8

## 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. 114

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: 175 L.C. 37.6 F.C.

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

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET 42 REASON Shoe Joint

## REMARKS

MDS in 102 House

CUSTOMER: Andaraku Pet

LEASE: May "C"

WELL NO.: 2

JOB TYPE: 8 5/8 S.P.

DATE: 12-31



JOB LOG HAL-2013-C

DATE 12-31 PAGE NO. 1

CUSTOMER Anadarko WELL NO. 2 LEASE Ray "C" JOB TYPE ~~6 5/8 S.P.~~ TICKET NO. 919633

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0630							Called out for Job.
	0930							On loc Rig circ. on BWH
	1030							Start out of hole w/d.p.
	1215							Out w/d.p. Rig up. CS9 TENDS.
	1245							Start Running 8 5/8 CS9. E.F.E.
	1410							CS9 on BWH Hook up 8 5/8 P.C. E Circ. Iron
	1418							CONFIDENTIAL Circ to Pit
	1424							Thru circ. Hook Iron to P.T.
	1427	7.0	175		✓		200	Start Pumping 305SX mid con cm + 2%cc 1/4 1/2 R FLO at 11.1 #/sq. i.
	1453	6.0	37.5		✓		150	Start Pumping 160 SX FROM PLUS cm + 2%cc 1/4 1/2 R FLO at 14.8 #/sq. i.
	1500							Shut down DROP PLUG
	1501	6.0	114		✓		100	Start DISP. bbl DISP. cm + TO SURFACE.
	1521	3.0	114		✓		350	104 bbl DISP. SLO RATE
	1525	3.0	114				750	LAND PLUG
	1529	0	114		✓		750	Release - Float Held
								<del>TRACES OF ...</del>
								RELEASED SEP 16 1998
								FROM CONFIDENTIAL 1hr Job Time 5hr Loc Time

RECEIVED  
 1998 SEP 16 3 12 PM  
 KANSAS CITY OFFICE



CHARGE TO: *Smith Co*  
 ADDRESS: *RECEIVED KANSAS CORP COMM*  
 CITY, STATE, ZIP CODE: *1001 ADD 2 D 2 10*

CUSTOMER COPY

TICKET No. *WJ* 919633 - 0  
 PAGE 1 OF 2

HAL-1906-N

SERVICE LOCATIONS 1015510	WELL/PROJECT NO. 2	LEASE <i>Roy C</i>	COUNTY/PARISH <i>Wichita</i>	STATE <i>KS</i>	CITY/OFFSHORE LOCATION <i>60</i>	DATE <i>12 21</i>	OWNER <i>SM</i>
22 1533	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <i>Wichita</i>	RIG NAME/NO. <i>Wichita 2</i>	DELIVERED TO <i>Wichita</i>	ORDER NO.	
3	WELL TYPE <i>W</i>	WELL CATEGORY <i>W</i>	JOB PURPOSE <i>W</i>	WELL PERMIT NO. <i>W</i>	WELL LOCATION <i>W</i>		
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							
600-117		1			MILEAGE	45	mi	2150		2150	296.50
600-119		1			<i>6000 m.c. 140</i>	27		27		1.5	40.50
630-018		1			<i>3000 m.c. 140</i>	1		5		170	170
631-010		1			<i>1000 m.c. 140</i>	123		4		1320	15240
624	825-217	1			<i>1000 m.c. 140</i>	11		8		211	2321
624	825-175	1			<i>5000 m.c. 140</i>	1		6		171	171
627	825-19415	1			<i>7000 m.c. 140</i>	1		8		141	141
641	826-61048	1			<i>2000 m.c. 140</i>	1		2		313	313
6320	826-71410	1			<i>11000 m.c. 140</i>	1		6		124	124
6350	826-10802	1			<i>6000 m.c. 140</i>	1		1		1725	1725

RELEASED SEP 16 1998  
 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.

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.

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					FROM CONTINUATION PAGE(S)
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE?		<input type="checkbox"/> YES	<input type="checkbox"/> NO	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	
<input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered		<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)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
<i>[Signature]</i>	<i>[Signature]</i>			





# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

**MID CONTINENT AREA**  
**LIBERAL KS**

HCC  
BILLED ON TICKET NO. **881064**

CUSTOMER **AMARCO-PETROLEUM**  
LEASE **PAY**  
WELL NO. **0-2**  
JOB TYPE **1" TOP OUT JOB**  
DATE **12-31-95**

## WELL DATA

FIELD \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_ RNG \_\_\_\_\_ COUNTY **HASKELL** 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						
LINER						
TUBING	<b>u</b>		<b>1"</b>	<b>KB</b>	<b>100</b>	
OPEN HOLE						SHOTS/FT.
PERFORATIONS			<b>ORIGINAL</b>			
PERFORATIONS						
PERFORATIONS						

## JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <b>12-31-95</b>	DATE <b>12-31-95</b>	DATE <b>12-31-95</b>	DATE <b>12-31-95</b>
TIME <b>1700</b>	TIME <b>1930</b>	TIME <b>2045</b>	TIME <b>2230</b>

## TOOLS AND ACCESSORIES

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

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<b>T. BROADFOOT</b>	<b>420045</b>	<b>LIBERAL Ks.</b>
<b>C. CORNELSEN</b>	<b>52947</b>	<b>"</b>
<b>DAVAS CORPENING</b>	<b>50737</b>	<b>HUGOTON Ks.</b>
<b>D4604</b>	<b>75496</b>	
<b>G2569</b>	<b>75517</b>	

## 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. **RELEASED** \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

SURFACTANT TYPE \_\_\_\_\_ GAL. **SEP 16 1998** \_\_\_\_\_

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 \_\_\_\_\_

**CONFIDENTIAL**

DEPARTMENT **CEMENT**

DESCRIPTION OF JOB **1" top out job ON SURFACE**

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

CUSTOMER REPRESENTATIVE **X Job Shies**

HALLIBURTON OPERATOR **John Brodeur** COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<b>1</b>	<b>200</b>	<b>PREM</b>		<b>B</b>	<b>3% C.C.</b>	<b>1.18</b>	<b>15.6</b>

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. \_\_\_\_\_

CEMENT SLURRY (BBL) GAL. **42**

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

## REMARKS

**MS AS NOT DELIVERED**

**JOB WELL DONE - NO ACCIDENT**



**JOE LOG** HAL-2013-C

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
ANADARKO PETROLEUM	C-2	RAY	1" TOP OUT	881064

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1700							CALLED OUT - READY NOW
	1930							ON LOCK - READY TO RUN 1"
	2040							HOOD UP TO 9" TDS
	2045							START. RUNNING CMT 15.6#/GAL
	2110							SHUT OFF - WAIT FOR
								1 HR CHECK DEPTH - 10 FT
								BELOW GROUND LEVER
	2210							Job OVER - Topped OUT.
								PUMPED 200SK PREM 3% C.C.
								CONFIDENTIAL
								THANKS FOR CALLING
								HALLIBURTON ENERGY SERVICES
								LIBERAL KS.
								"HAVE A SNOWY NIGHT"
								BROADFOOT. CORNELSEN - DALLAS CORPENIZ
								MSDS NOT DELIVERED
								CIRCULATED TO SURFACE
								Job Time 1 HR 25min.
								LOCK TIME 2 HR 40min
								RELEASED
								SEP 16 1998
								FROM CONFIDENTIAL



**HALLIBURTON ENERGY SERVICES**

HAL-1906-N

CHARGE TO: **ANADARKO PETROLEUM**  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

DUNCAN COPY

TICKET

*WJ*

No.

881064 - 8

PAGE 1 OF 2

1. SERVICE LOCATIONS <b>LIBERAL KS. 025540</b>	WELL/PROJECT NO. <b>C-2</b>	LEASE <b>RAY</b>	COUNTY/PARISH <b>HASKELL</b>	STATE <b>KS</b>	CITY/OFFSHORE LOCATION	DATE <b>12-31-95</b>	OWNER <b>SAME</b>
2. <b>WAGONK 025535</b>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <b>NORSEMAN</b>	RIG NAME/NO. <b>NORSEMAN 2</b>	SHIPPED VIA	DELIVERED TO	ORDER NO
3.	WELL TYPE <b>01</b>	WELL CATEGORY <b>01</b>	JOB PURPOSE <b>030</b>	WELL PERMIT NO	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		U/M	U/M		
000-117					MILEAGE	90	Mi	2.85	256.50
011-205					Pump CHARGE 1"	380	PSI	0.50	860.-
ORIGINAL									
CONFIDENTIAL									
RELEASED SEP 16 1998 FROM CONFIDENTIAL									

**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 <i>X Job Shea</i>	TIME SIGNED <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	11 16 50
		TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	<input checked="" type="checkbox"/>		FROM CONTINUATION PAGE(S)	3345 77
		BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?	<input checked="" type="checkbox"/>		(331.70)	4462.27
		TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	<input checked="" type="checkbox"/>			
		TUBING SIZE	TUBING PRESSURE	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	<input checked="" type="checkbox"/>			
		WELL DEPTH		ARE YOU SATISFIED WITH OUR SERVICE?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	3346 72
		TREE CONNECTION	TYPE VALVE	<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) <i>John Shilling</i>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>X Job Shea</i>	HALLIBURTON OPERATOR/ENGINEER <i>J. Bradford</i>	EMP # <i>24604</i>	HALLIBURTON APPROVAL <i>J. Bradford 25%</i>
---	---	---	-----------------------	--

02-23



HALLIBURTON

HALLIBURTON ENERGY SERVICES

FORM 1911 R-10

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 551064

CUSTOMER Anadarko Petroleum Corp.	WELL Ray C 2	DATE 12-21-95	PAGE 2	OF 2
--------------------------------------	-----------------	------------------	-----------	---------

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-050	516.00265				Premium Flys Cement	<del>200</del>				11.91	2382.00
509-406	800.50812				Calcium Chloride 3% on Side	6	pk			36.75	220.50
011-205					1" Pipe 100ft	1	pk			125.00	125.00
<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">ORIGINAL</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CONFIDENTIAL</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">RELEASED SEP 16 1998</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">FROM CONFIDENTIAL</div> </div>											
500-207					SERVICE CHARGE						
500-306					MILEAGE CHARGE						
					TOTAL WEIGHT	18000					
					LOADED MILES	39					
					CUBIC FEET						
					TON MILES	366.6					
										1.35	270.00
										.95	368.27

No. B 219578

CONTINUATION TOTAL

3345.77



# JOB SUMMARY

HALLIBURTON DIVISION Mid CONTINENT  
 HALLIBURTON LOCATION LIBERAL, KS

BILLED ON TICKET NO. 919752

## WELL DATA

FIELD \_\_\_\_\_ SEC. 21 TWP. 29S RNG. 34W COUNTY HASKELL 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 BAKER PORT COLLAR SET AT 3138  
 BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
 MISC. DATA \_\_\_\_\_ TOTAL DEPTH 5640

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>U</u>	<u>15.5</u>	<u>4 1/2</u>	<u>KB</u>	<u>KB</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>1-11-96</u>	DATE <u>1-11-96</u>	DATE <u>1-12-96</u>	DATE <u>1-12-96</u>
TIME <u>1700</u>	TIME <u>2000</u>	TIME <u>0034</u>	TIME <u>0125</u>

## TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>INSRT</u>	<u>5/2 1</u>	<u>H</u>
GUIDE SHOE <u>REG</u>	<u>5/2 1</u>	
CENTRALIZERS	<u>5/2 22</u>	<u>O</u>
BOTTOM PLUG		
TOP PLUG <u>5-W</u>	<u>5/2 1</u>	<u>W</u>
HEAD <u>PIC</u>	<u>5/2 1</u>	
PACKER		<u>C</u>
OTHER <u>BASKET</u>	<u>5/2 1</u>	<u>O</u>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. Woodrow</u>	<u>62573 420044</u>	<u>LIBERAL KS</u>
<u>T. Poyer</u>	<u>48120 53554/75-104</u>	<u>" "</u>
<u>D. McClane</u>	<u>3601 51981/BULK</u>	<u>HUGOTON KS</u>
	<u>177031</u>	

**CONFIDENTIAL**

DEPARTMENT CEMENT

DESCRIPTION OF JOB CEMENT ~~5 1/2~~ production casing

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

CUSTOMER REPRESENTATIVE X John Shelling

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>75</u>		<u>mid con</u>		<u>B</u>	<u>1/4" FLOCCLE</u>	<u>2.01</u>	<u>12.8</u>
<u>100</u>		<u>Premium</u>		<u>B</u>	<u>.9% VERSASET, .6% HALAD-322, 5% KCL</u>	<u>1.41</u>	<u>14.5</u>
		<u>VERSASET</u>			<u>1/4" FLOCCLE</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 43 REASON SHOE JOINT

PRESLUSH: BBL.-GAL. 70 TYPE \_\_\_\_\_  
 LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. 132.0  
 CEMENT SLURRY 41.1 LC BBL.-GAL. \_\_\_\_\_  
 TOTAL VOLUME: BBL.-GAL. 37.6 TC  
18.7 REMARKS \_\_\_\_\_

CUSTOMER ANA DAPRO Petroleum LEASE PAY "C" WELL NO. 3 JOB TYPE 5 1/2 LOGS STR. LOG DATE 1-11-96

JOB LOG HAL-2013-C

CUSTOMER ANADARKO PET. CORP 2 WELL NO. LEASE Ray C JOB TYPE 6 1/2" LONG STRING TICKET NO. 919752

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2000							JOB READY
	1700							CALLED OUT FOR JOB
	2000							PUMP TRUCK + BULK TRUCK ON LOCATION RIG HAS DRILL PIPE LAYED DOWN / RIG UP TO RUN CASING / SET UP PT START RUNNING 5 1/2 CSG + FLOAT EQUIP PLACE FO TOOL ON # 57 JT. (3131 FT) FINISH RUNNING CSG TO BOTTOM CASING ON BOTTOM 5595" SET 5578" OF CASING
	2035							ORIGINAL
	2210							
	2345							
	2400							CONFIDENTIAL
	2400							
	2400							
								HOOK UP 5 1/2 P/L + CIRCULATING IRON START CIRCULATING WITH RIG PUMP HOLD SAFETY MEETING THROUGH CIRCULATING / HOOK UP TO PUMP TRUCK JOB PROCEDURE
	0034	5.0	20		✓		200'	1180 pump 20 BBL 2.7 KCL WATER
	0038	5.0	30		✓		180'	1200 pump 30 BBL MUD FLUSH
	0042	5.6	20		✓		180'	1200 pump 20 BBL 2.7 KCL WATER
	0045	6.0	41.0		✓		180'	1275' START MIXING 115 SLS LEAD CMT AT 12.8 <sup>W</sup> GAL
	0052	6.0	37.6					START MIXING 150 SLS TAIL CMT AT 14.5 <sup>W</sup> GAL
	0100		78.6					OT THROUGH MIXING CEMENT / SHUT DOWN
	0101							WASH OUT PUMP + LINES - RELEASE PLUG
	0104							START DISPLACING
	0118				✓		135'	1240 HAVE 93 BBL DISP / GETTING CMT LIFT
					✓		950'	MAX LIFT PRESSURE BEFORE LANDING PLUG
	0125		131.5		✓		1500'	PLUG DOWN / RELEASE FLOAT FLOAT HELD. HAD GOOD MUD CIRCULATION THROUGHOUT JOB OFF LOCATION
	0200							THANK YOU! CALL US AGAIN! Woody + TOM + CREW
								ON LOCATION TIME - 6 HRS PUMPING TIME - 49 MIN

RELEASED  
SEP 15 1998

FROM CONFIDENTIAL



**HALLIBURTON ENERGY SERVICES**

HAL-1906-N

CHARGE TO: ANADARKO PETROLEUM CORP  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

TICKET No. 919752 - 9

PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>025540 LIBERAL</u> 2. <u>20255.35 ANGTON</u>	WELL/PROJECT NO. <u>2</u>	LEASE <u>RAY "C"</u>	COUNTY/PARISH <u>HASKELL</u>	STATE <u>KS</u>	CITY/OFFSHORE LOCATION <u>M. SAFANTA</u>	DATE <u>1/11/14</u>	OWNER <u>SAME</u>
3.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>NORSEMAN DRILL</u>	RIG NAME/NO. <u>"1"</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>WFM SITE</u>	ORDER NO.
4.	WELL TYPE <u>01 OIL</u>	WELL CATEGORY <u>01 DEVELOPMENT</u>	JOB PURPOSE <u>035 - 5 1/2 LONG STRING</u>	WELL PERMIT NO. <u>1508-1207-840000</u>	WELL LOCATION <u>LAND</u>		
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		U/M	U/M			
000-117		1			MILEAGE	44	mi	2	EA	250
000-119		1			CREW MILEAGE	47	mi	2	EA	132
030-016		1			PUMP CHARGE	5595	FT	2000	EA	2000
030-016		1			S-W TOP PLUG	1	EA	60	EA	60
018-315		1			MUD FLUSH	1260	GAL	65		817
314-163		1			CLA FIXT	4	GAL	28	EA	112
12A	825-205	1			REGULAR GUIDE SHOES	1	EA	121	EA	121
24A	815-19251	1			INSERT FLOAT	1	EA	110	EA	110
27	815-19311	1			FILL UP ASSY	1	EA	67	EA	67
40	806-60022	1			CENTRALIZER	22	EA	160	EA	1320
320	806-71430	1			BASKET	1	EA	104	EA	104

ORIGINAL

CONFIDENTIAL

RELEASED SEP 16 1998

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

DATE SIGNED <u>John Shea</u>	TIME SIGNED <u></u>	<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> NOT PULLED	<b>SURVEY</b>	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <u>5077</u>	
TYPE LOCK			DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	/				FROM CONTINUATION PAGE(S) <u>5745</u>
BEAN SIZE			SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?	/				
TYPE OF EQUALIZING SUB.			CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	/				SUB-TOTAL <u>10843</u>
TUBING SIZE		TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	/				
TREE CONNECTION			TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		APPLICABLE TAXES WILL BE ADDED ON INVOICE	
				<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 Shea</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>John Shea</u>	HALLIBURTON OPERATOR/ENGINEER <u>John Alton</u>	EMP # <u>2282</u>	HALLIBURTON APPROVAL
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HALLIBURTON

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 11722

HALLIBURTON ENERGY SERVICES

CUSTOMER AFC	WELL Ray C 2	DATE 1-11-96	PAGE OF
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FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-282					Midcon Prem Plus Cement	115		skts		16.76	1927.40
507-285	70.15250										
508-127	516.00335										
504-043	516.00272				Premium Cement	150		skts		11.08	1662.00
507-210	890.50071				Flocele 1/4# w/all	66		#		1.65	1084.90
508-095	516.00789				Versaset .9% w/150 Prem	127		#		3.90	495.30
507-775	516.00144				Halad-322 .6% w/150 Prem	85		#		7.00	595.00
508-002	70.15302				Potassium Chloride 5% w/150 Prem	427		#		.27	115.29
ORIGINAL											
CONFIDENTIAL											
RELEASED											
SEP 16 1998											
FROM CONFIDENTIAL											
500-207					SERVICE CHARGE			CUBIC FEET	275	1.35	371.25
500-306					MILEAGE CHARGE	TOTAL WEIGHT 26047	LOADED MILES 38	TON MILES	494.90	.95	470.16

No. B 219653

CONTINUATION TOTAL

5775.30

**WELL DATA**

FIELD \_\_\_\_\_ SEC \_\_\_\_\_ TWP. \_\_\_\_\_ RNG. \_\_\_\_\_ COUNTY *Haskell* 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		155	5 7/8	GL		
LINER						
TUBING			2 3/8	KB	1130	
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**JOB DATA**

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>2-6</i>	DATE <i>2-6</i>	DATE <i>2-6</i>	DATE <i>2-6</i>
TIME <i>6500</i>	TIME <i>0800</i>	TIME <i>1145</i>	TIME <i>1700</i>

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<i>Chase</i>	<i>400041</i>	<i>Lizsisk Ks</i>
<i>Orlanger</i>	<i>52938 / 7131</i>	<i>"</i>
<i>D. G. ...</i>	<i>4037 / 1523</i>	<i>Hogden Ks</i>
<i>T. B. ...</i>	<i>3233 / 77829</i>	<i>Lizsisk Ks</i>

**CONFIDENTIAL**

DEPARTMENT ~~...~~  
 DESCRIPTION OF JOB \_\_\_\_\_

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

CUSTOMER REPRESENTATIVE *X* *C. J. ...*

HALLIBURTON OPERATOR *D. ...* COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<i>120</i>	<i>M. J. ...</i>	<i>Point ...</i>		<i>3966 1/4 #/ft. ...</i>	<i>3.22</i>	<i>11.1</i>

**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 \_\_\_\_\_ REASON \_\_\_\_\_

PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. *1.2*  
 CEMENT SLURRY: BBL.-GAL. *314.70*  
 TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

**REMARKS**

CUSTOMER *Murphy & ...*  
 RELEASE *...*  
 WELL NO. \_\_\_\_\_  
 JOB TYPE *...*



**JOB LOG** HAL-2013-C

CUSTOMER: *Amador Petro Corp* WELL NO.: *2#* LEASE: *Pay C* JOB TYPE: *Refract Perfor* TICKET NO.: *919895*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0500							Time Collected
	0900							Time Ready
	0800							Time on loc.
								<i>Big Pump Tubing in Hole.</i>
	1145							Broken tool joint
	1230							Trips Tub. out of hole
	1315							Run Wire line in Hole To Find Best Coll.
	1350							Run Tub in Hole.
	1351		1 1/2			1500		Load Tub.
	1355							Press Test Tool
	1356							Release Press Down 300 PSI
	1415	1 1/2				400		Open Tool.
	1417	2				500		Set Indetch. BTE
	1419	3				1000		Increase BTE.
	<del>1428</del> 1428	38	148			1475		Start Cement
	1436		34.45			150		Final Mixing Cement 22 Bbl cement Create
	1437					150		Start Dip. Fluid To Ground Level
	1442		11.5					Shut Down
	1443							Set Tool Close Port Cellars.
	1444					1500		Press up
	1445							Release Press
	1450							Run 1 Joint of Tub.
	1453	2	30					Pressure at
	1518							Shut Down
	1520							Block loss Big Run Tub To Bottom
								FROM CONFIDENTIAL
	1600							Hook up To Tub.
	1607							Start Acid
	1613		250 <sup>gal</sup>					Start Flush
	<del>1623</del> 1623		24					Shut Down
	1625							Hook up To BS
	1632					350		Start Pumping
	1645		40			500		Shut Down Block Loss
	1700							Final webis

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SEP 16 1998

*Thank You For Calling Halliburton Energy Services*



**HALLIBURTON ENERGY SERVICES**

HAL-1906-N

CHARGE TO: Anadarko Petroleum Corp.  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

DUNCAN COPY

TICKET

No. 919895 - 9

PAGE 1 OF 1

SERVICE LOCATIONS 1 <u>Liberal, KS 25546</u> 2 <u>Horton, KS 25535</u> 3. 4.	WELL/PROJECT NO. <u>2#</u>	LEASE <u>Ray C</u>	COUNTY/PARISH <u>Haskell</u>	STATE <u>Ks</u>	CITY/OFFSHORE LOCATION	DATE <u>2-6-96</u>	OWNER <u>Anadarko Pet</u>
TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO <u>Loc.</u>	ORDER NO.	
WELL TYPE	WELL CATEGORY <u>01 02</u>	JOB PURPOSE <u>Recent</u>	WELL PERMIT NO.	WELL LOCATION <u>NO# SATAWA</u>			
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		1			MILEAGE	82	Miles	1		2.85	233.70
000-119		1			Green Mileage	82	miles	1		1.50	123.00
009-019		1			Pump charge	3130	FT	1			1590.00
009-027					Additional charge	3	Hours	1		235.00	705.00
300-135	ORIGINAL	1			Transport Charge	1	Unit	4	Hours	65.00	260.00
201-004		1			Acid. HCL	250	BL	7 1/2	%	1.29	322.50
210-017		1			HAI 81 m	1	BL			39.00	39.00

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RELEASED  
SEP 16 1998

**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

X C. J. Stuck  
 DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  
 A.M.  P.M.

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	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		

PAGE TOTAL	3273	22
FROM CONTINUATION PAGE(S)	1301	39
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE		

**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>O. J. Stuck</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>X O. J. Stuck</u>	HALLIBURTON OPERATOR/ENGINEER <u>10102 Dennis Green</u>	EMP # <u>59179</u>	HALLIBURTON APPROVAL
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