

FORM MUST BE TYPED

**CONFIDENTIAL**

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: NONE/EVALUATING

Operator Contact Person: J. L. ASHTON

Phone ( 316 ) 624-6253

Contractor: Name: NORSEMAN DRILLING

License: 3779

Wellsite Geologist: N/A

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SLOW  Temp. Abd.

Gas  ENHR  SIGW

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

If Workover:

Operator: OCT 15 1998

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ FROM CONFIDENTIAL

Deepening  Re-perf.  Conv. to Inj/SWD

Plug Back  PBTB

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

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

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

8-14-96 8-24-96 9-11-96

Spud Date Date Reached TD Completion Date

API NO. 15- 189-22096-00-00

County STEVENS

SW NE Sec. 32 Twp. 33 Rge. 38  E  W

1980 Feet from  X (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 COSTLEY "A" Well # 2

Field Name GENTZLER SW

Producing Formation MORROW

Elevation: Ground 3204.7 KB \_\_\_\_\_

Total Depth 6400 PBTB 6310

Amount of Surface Pipe Set and Cemented at 1675 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 3180 Feet

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

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

Drilling Fluid Management Plan Att. 10-5-98 U.C.  
(Data must be collected from the Reserve Pit)

Chloride content 900 ppm Fluid volume 700 bbls

Dewatering method used NATURAL EVAPORATION

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

Operator Name KCC 12-11-96

Lease Name DEC 10 License No. \_\_\_\_\_

CONFIDENTIAL Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

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

**RELEASED**

**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 David W. Kapple

DAVID W. KAPPLE

Title DIVISION DRILLING ENGINEER Date 12/10/96

Subscribed and sworn to before me this 10<sup>th</sup> day of December 19 96.

Notary Public L. Marc Harvey

Date Commission Expires \_\_\_\_\_

**L. MARC HARVEY**  
Notary Public - State of Kansas  
My Appt. Expires 6-12-99

**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)

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name COSTLEY "A" Well # 2

Sec. 32 Twp. 33 Rge. 38  East County STEVENS  
 West

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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets.)  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)  List All E.Logs Run: DIL, ML, CNL-LDT, SONIC, CBL-CCL-GR.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> Log</td> <td style="text-align: center;">Formation (Top), Depth and Datums</td> <td style="text-align: center;"><input type="checkbox"/> Sample</td> </tr> <tr> <td style="text-align: center;">Name</td> <td style="text-align: center;">Top</td> <td style="text-align: center;">Datum</td> </tr> <tr> <td>B/STONE CORRAL</td> <td style="text-align: right;">1738</td> <td></td> </tr> <tr> <td>CHASE</td> <td style="text-align: right;">2540</td> <td></td> </tr> <tr> <td>COUNCIL GROVE</td> <td style="text-align: right;">2874</td> <td></td> </tr> <tr> <td>HEEBNER</td> <td style="text-align: right;">4132</td> <td></td> </tr> <tr> <td>LANSING</td> <td style="text-align: right;">4264</td> <td></td> </tr> <tr> <td>MARMATON</td> <td style="text-align: right;">4988</td> <td></td> </tr> <tr> <td>MORROW</td> <td style="text-align: right;">5780</td> <td></td> </tr> <tr> <td>CHESTER</td> <td style="text-align: right;">6280</td> <td></td> </tr> <tr> <td>STE. GENEVIEVE</td> <td style="text-align: right;">6392</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample	Name	Top	Datum	B/STONE CORRAL	1738		CHASE	2540		COUNCIL GROVE	2874		HEEBNER	4132		LANSING	4264		MARMATON	4988		MORROW	5780		CHESTER	6280		STE. GENEVIEVE	6392	
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STE. GENEVIEVE	6392																																	

CASING RECORD							
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	1675	P+ MIDCON 2/ P+	400/100	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8	5-1/2	15.5	6379	VERSASET	140	.6% HALAD 322, 5% KCl, 1/4#SK FLC.
			F. O. TOOL @	3180	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
4	6190-6208'	ACID: 500 GAL CITRIC ACID: 1100 GAL 7-1/2% FeHCL AND 5% CITRIC ACID: 7-1/2% FeHCL 6190-6208'
4	6218-6224'	ACID: 360 GAL 7-1/2%FeHCL 6218-6224'

TUBING RECORD **	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
------------------	------	--------	-----------	---

Date of First, Resumed Production, SWD or Inj. **	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas ** Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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) \_\_\_\_\_ 6190-6224' (OA)

\*\* EVALUATING

**CONFIDENTIAL**

**ORIGINAL**

*100*

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

**RELEASED**

**OCT 15 1998**

**WELL NAME: COSTLEY A-2  
SECTION 32-33S-38W  
STEVENS COUNTY, KANSAS**

**FROM CONFIDENTIAL**

**COMMENCED: August 13, 1996**

**COMPLETED: August 25, 1996**

**OPERATOR: ANADARKO PETROLEUM CORPORATION**

Depth From	To	Formation	Remarks
0	1192	Sand & Redbed	Ran 41 jts of 23# of 8 5/8" csg set @ 1675'; w/400 SX of Midcon; 2% CC; 1/4# SX Flocele; Tailed w/100 SX PP; 2% CC; 1/4# SX Flocele; Plug down at 1:00 p.m. on 08/16/96.
1193	1375	Glorietta Sand	
1376	3024	Redbed	
3025	6400	Lime & Shale	

**DEC 10  
CONFIDENTIAL**

Ran 151 jts 5 1/2" 15.5#, Set @ 6376'; w/140 SX . Cement; Plug down 10:45 p.m. on 8/25/96; Rig Rel at 11:45 p.m. on 08/25/96.

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, INC.

*James P. Reilly*  
JAMES P. REILLY, PRESIDENT

Subscribed & sworn to before me this August 29, 1996

My Appointment Expires:

July 21, 1999 

*Phyllis E. Brewer*  
 Phyllis E. Brewer, Notary Public  
 11817 Jamesburg  
 Wichita, KS 67212 *(21)*



**JOB SUMMARY**

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

Mid Continent Area  
Liberal, KS

BILLED ON TICKET NO.

KOC  
106589

**WELL DATA**

FIELD \_\_\_\_\_ SEC 32 TWP. 33 RNG. 38 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 \_\_\_\_\_  
PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_  
BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

**CONFIDENTIAL**

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING						
LINER						
TUBING	<u>N</u>	<u>4.7</u>	<u>2 3/8</u>	<u>KD</u>	<u>3141</u>	
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**JOB DATA**

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-28-96</u>	DATE <u>8-28-96</u>	DATE <u>8-28-96</u>	DATE <u>8-28-96</u>
TIME <u>0400</u>	TIME <u>0715</u>	TIME <u>1115</u>	TIME _____

**TOOLS AND ACCESSORIES**

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

**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.	
PERFPAC BALLS TYPE		QTY.
OTHER		
OTHER		

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION

**RELEASED**

**OCT 15 1998**

**DEC 1 0**  
**CONFIDENTIAL**

**FROM CONFIDENTIAL**

DEPARTMENT CMT  
 DESCRIPTION OF JOB CMT Port Collar Pickle T. Bldg. w/ 250891 7 1/2% HCl  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
 CUSTOMER REPRESENTATIVE X P.J. Stueb  
 HALLIBURTON OPERATOR Type Davis COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU. FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>60</u>	<u>PT Midcon</u>	<u>B</u>	<u>3200</u>	<u>1/4 # F10</u>	<u>3.22</u>	<u>11.1</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 \_\_\_\_\_ REASON \_\_\_\_\_

**SUMMARY**

VOLUMES 10 TYPE HCl H2O  
 PRESLUSH BBL-GAL. \_\_\_\_\_  
 LOAD & BKDN: BBL-GAL. \_\_\_\_\_ PAD: BBL-GAL. \_\_\_\_\_  
 TREATMENT BBL-GAL. 250 7 1/2% HCl DISPL BBL-GAL. 12.1  
 CEMENT SLURRY BBL-GAL. 34.5  
 TOTAL VOLUME: BBL-GAL. \_\_\_\_\_

**REMARKS**

**FIELD OFFICE**

NOV 11 4 1:25 PM '96

CUSTOMER: Amador KOC  
LEASE: COSTLEY  
WELL NO: 2  
JOB TYPE: CMT Port Collar  
DATE: 8-28-96



JOB LOG HAL-2013-C

CUSTOMER Anco Berko	WELL NO. 2	LEASE Cosley 12"	JOB TYPE PICKUP TBNH CMT. PORT COLLAR	TICKET NO. 106589
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0400							called out for job.
	0705							on Loc. K18 up. Pulling unit
	0830							Start T.I.H. w/278 TBNH.
	1115	1	1	X		0	1500	PSI test
	1119							Open Port collar ORIGINAL
	1120	3.5		X		700	700	EST. circulation
	1124	3.5		X		700	700	Circ. to pit 10bbl pumped.
	1126	3.5	34.5	X		650		Pump 60sx ptmc 32cc/1410 9t 11.1
	1134	3.5	12	X		500		Pump disp.
	1138	0	12	X		0		Shut down close tool
	1139	1	1	X		0	1700	close PC & ps. test
	1143							brk off swivel
	1156	1	20	X		180	180	Reverse out
	1210	0	20	X				Shut down DEC 10
	1224							Run TBNH. CONFIDENTIAL
								TBNH on BOH 9t 6335c
	1405							Hook Iron 10 P.T.
	1410	2.5	6	X		450		pump. 71220 Hcl w/1841 HAI 8111
	1414	2.0	18.5	X		300		Thru pumping. Acid - PUMP DISP.
	1420	0	24.5	X		0		Thru DISP shut down. Hook iron to B.
	1427	1.0	340	X		150		Reverse out
	1455	0	40	X		0		Shut down.
	1500							JOB over - Thanks For calling. Tyce sonny, Don. Dallas.

RELEASED

OCT 15 1998

FROM CONFIDENTIAL

CONFIDENTIAL  
OCT 11 1998



# JOB SUMMARY

HALLIBURTON DIVISION MED CONT.  
 HALLIBURTON LOCATION LIBERAL KS

BILLED ON TICKET NO. 106741  
122

## WELL DATA

FIELD \_\_\_\_\_ SEC. 32 TWP. 33 S. RING. 38 W. 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 BAKER P.O. Tool MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_

PACKER TYPE \_\_\_\_\_ SET AT 3141.8

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

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

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>INSIDE W/STL</u>	<u>1</u>	<u>HOWCO</u>
FLOAT SHOE <u>REG.</u>		
GUIDE SHOE <u>REG.</u>	<u>1</u>	
CENTRALIZERS <u>S-4</u>		
BOTTOM PLUG		
TOP PLUG <u>S-WIPER</u>	<u>1</u>	
HEAD <u>FREE FALL</u>	<u>1</u>	
PACKER		
OTHER <u>CMT BASKET</u>	<u>1</u>	

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-25-96</u>	DATE <u>8-25-96</u>	DATE <u>8-25-96</u>	DATE <u>8-25-96</u>
TIME <u>11:15</u>	TIME <u>14:15</u>	TIME <u>21:54</u>	TIME <u>22:51</u>

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. ELWOOD</u>	<u>41475</u>	<u>LIBERAL KS</u>
<u>D. 4360</u>	<u>P.O.</u>	<u>LIBERAL KS</u>
<u>T. MULLEN</u>	<u>52938</u>	<u>"</u>
<u>E0382</u>	<u>75051 (3P)</u>	<u>"</u>
<u>S. TELFORD</u>	<u>51984</u>	<u>HUGOTON KS</u>
<u>H 4817</u>	<u>77031 (6)</u>	<u>HUGOTON KS</u>

### MATERIALS

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

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

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

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

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 \_\_\_\_\_

DEPARTMENT 5001 CMT

DESCRIPTION OF JOB 5 1/2 CS.

JOB DONE THRU. TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE X O. J. Stuck

HALLIBURTON OPERATOR ROBERT ELWOOD COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>140</u>	<u>VERSASET</u>		<u>B</u>	<u>6 1/10% 322, 5% HCL, 1/4 %/sk. 110.</u>	<u>1.42</u>	<u>14.5</u>
	<u>25</u>	<u>PREM</u>		<u>B</u>	<u>NEAT TO FINE RAT &amp; MISC</u>	<u>1.06</u>	<u>14.4</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 42.68 REASON SURE WT

### SUMMARY

PRESLUSH: (BBL)-GAL. 8-10-8 TYPE 11.0, 5.0, 11.0

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

TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. (BBL) GAL. 45.25

CEMENT SLURRY: (BBL) GAL. 35.4 T 47 For Rat & Misc

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

### VOLUMES

REMARKS \_\_\_\_\_

FIELD OFFICE

CUSTOMER AMORPHO

LEADER COOPER

WELL NO. A-12

JOB TYPE 12



**HALLIBURTON ENERGY SERVICES**  
HAL-1906-P

CHARGE TO:  
*ANADARICO PET.*

ADDRESS

CITY, STATE, ZIP CODE

CUSTOMER COPY

TICKET

No.

106741 - 8

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1. 025540 <i>LIBERAL</i>	<i>A-2</i>	<i>COSTLEY</i>	<i>STEELE'S</i>	<i>LA</i>		<i>9-25-96</i>	<i>Sonic</i>
2. 025533 <i>Huxford</i>							
3.							
4.							
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT		
		LOG	ACCT	DF		U/M	U/M				
<i>000-112</i>	<i>CONFIDENTIAL</i>				MILEAGE	<i>1</i>	<i>24</i>	<i>m</i>	<i>2.99</i>	<i>251</i>	
<i>000-119</i>					<i>CREW MILEAGE</i>	<i>1</i>	<i>84</i>	<i>m</i>	<i>1.62</i>	<i>134</i>	
<i>001-016</i>		<i>RELEASED</i>				<i>PUMP CHARGE</i>	<i>60</i>	<i>16376</i>	<i>IT</i>		<i>2130</i>
<i>030-018</i>		<i>15 1998</i>				<i>5 WIPER TAP PLUG</i>	<i>5 1/2</i>	<i>1</i>	<i>EA</i>		<i>60</i>
<i>001-018</i>						<i>ADDITIONAL HOURS</i>	<i>1</i>	<i>2</i>	<i>EA</i>	<i>260.00</i>	<i>520</i>
<i>12 A</i>		<i>825-205</i>				<i>REG. GOLDEN SHOE</i>	<i>5 1/2</i>	<i>1</i>	<i>EA</i>		<i>121</i>
<i>24 A</i>		<i>815-19251</i>				<i>FLOAT INSERT</i>	<i>5 1/2</i>	<i>1</i>	<i>EA</i>		<i>131</i>
<i>27</i>		<i>815-19311</i>				<i>F.H ASSEMBLY</i>	<i>5 1/2</i>	<i>1</i>	<i>EA</i>		<i>69</i>
<i>40</i>		<i>806-60022</i>				<i>CENTRALIZERS</i>	<i>5 1/2</i>	<i>14</i>	<i>EA</i>	<i>60.00</i>	<i>840</i>
<i>320</i>		<i>806-71430</i>				<i>CANVAS CMT BASKET</i>	<i>5 1/2</i>	<i>1</i>	<i>EA</i>		<i>1040</i>
<i>350</i>	<i>890-10807</i>				<i>WELD-A</i>	<i>1</i>	<i>1</i>	<i>EA</i>		<i>16</i>	
<i>081-317</i>					<i>SUPER FLUSH</i>	<i>1</i>	<i>10</i>	<i>CA</i>	<i>100.00</i>	<i>1,000</i>	

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

*X* *O.J. Stuck*  
DATE SIGNED TIME SIGNED

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?

YES  NO

PAGE TOTAL	<i>5377</i>
FROM CONTINUATION PAGE(S)	<i>3324</i>
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	<i>8762</i>

**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) *O.J. Stuck*

CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) *X O.J. Stuck*

HALLIBURTON OPERATOR/ENGINEER *Robert Elwood*

EMP # *04360*

HALLIBURTON APPROVAL



HALLIBURTON

TICKET CONTINUATION, CUSTOMER COPY

TICKET No. 126 341

HALLIBURTON ENERGY SERVICES

CUSTOMER: Arc, WELL: Coatlery, DATE: 8-25-96, PAGE: 2 OF 2

FORM 1911 R-10

Table with columns: PRICE REFERENCE, SECONDARY REFERENCE/PART NUMBER, ACCOUNTING (LOC, ACCT, DF), DESCRIPTION, QTY., U/M, UNIT PRICE, AMOUNT. Includes rows for Premium Ont., Flo 1/8, Halad -322 6/10%, KCL-5%, Versaset 9/10%, and SERVICE CHARGE.

RECEIVED  
K.A. SANS  
DEC 11 A 1:25

FROM CONFIDENTIAL  
OCT 15 1998  
RELEASED

CONFIDENTIAL  
DEC 10  
KUC

CONFIDENTIAL  
ORIGINAL

No. B 343688

CONTINUATION TOTAL



WELL DATA  
FIELD GEITZLER SW SEC. 32 TWP. 33S RNG. 36W 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 \_\_\_\_\_ SET AT \_\_\_\_\_  
BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	23	8 5/8	KB	1691	87
LINER						
TUBING						
OPEN HOLE			12 1/4	GL	1687	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**ORIGINAL**

**JOB DATA**

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>TRASCATW/E 11</u>	<u>1</u>	<u>23#</u>
GUIDE SHOE <u>REGULAR</u>	<u>1</u>	
CENTRALIZERS	<u>5</u>	<u>2 5/8"</u>
BOTTOM PLUG	<u>1</u>	<u>F-10000</u>
TOP PLUG	<u>1</u>	
HEAD	<u>1</u>	
PACKER <u>CMT BASKET</u>	<u>1</u>	
OTHER <u>WELDER</u>	<u>1</u>	

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-16-96</u>	DATE <u>8-16-96</u>	DATE <u>8-16-96</u>	DATE <u>8-16-96</u>
TIME <u>12:00 PM</u>	TIME <u>02:30</u>	TIME <u>11:00</u>	TIME <u>12:50</u>

**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. \_\_\_\_\_  
PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
OTHER \_\_\_\_\_  
OTHER **OCT 15 1998**

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<u>D. MARK</u> <u>Peck-up</u>	<u>41175</u>	<u>Liberal</u>
<u>R. BRETTON</u> <u>RAM</u>	<u>52938</u> <u>75051</u>	<u>Liberal</u>
<u>C. A. Joly</u> <u>Bill</u>	<u>5894</u> <u>77051</u>	<u>HUYOTON</u>
<u>M. Longworth</u>	<u>50104</u> <u>75505</u>	<u>11</u>

**DEC 10**  
**CONFIDENTIAL**

DEPARTMENT \_\_\_\_\_  
DESCRIPTION OF JOB CMT 2 5/8" SURFACE CASING  
JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
CUSTOMER REPRESENTATIVE X  
HALLIBURTON OPERATOR James G. ... COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT BRAND	ADDITIONS	YIELD CU FT./SK	MIXED LBS./GAL
<u>1</u>	<u>400</u>	<u>MISC +</u>	<u>R 35% cc 1/2" Fly Flashes</u>	<u>3.22</u>	<u>11.1</u>
<u>2</u>	<u>100</u>	<u>ppcm +</u>	<u>B 25% cc 1/2" Fly Flashes</u>	<u>1.34</u>	<u>14.8</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 14195 REASON Shoe Joint

**SUMMARY**  
PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD. BBL.-GAL. \_\_\_\_\_  
TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. BBL.-GAL. 105.0  
CEMENT SLURRY: BBL.-GAL. 252  
TOTAL VOLUME: BBL.-GAL. 93.1  
REMARKS SEE JOB LOG

**JOB LOG** HAL-2013-C

 CUSTOMER **Amadorisco Petco.** WELL NO. **2** LEASE **Costley A** JOB TYPE **8 5/8 SURFACE** TICKET NO. **106779**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	02400							Time Collected
	0400							Time Ready
	0230							Time on hole. Rig Picking SURFACE Hole
	0945							Start Pumping Casing ORIGINAL
	1100							Casing in Hole
	1103							Hook up to Casedate Casing
	1110							Casedate Casing w/ Pump
	1113							Casedate Mixed to Gravel Level
	1123							Hook up to Pump Track
	1128	5.0						Start Mixing Cement
	1208		229.34					Start Tail Cement
	1223		23.50					Finish Mixing Cement
	1224		252.84					Shut Down
	1225	5						Start Displacement
		4.2	105					WASH PUMP'S LINES
	1230							Shut Down
								(Flant Hold) Casedate Cement To PIT 30 BPM 52.1
								RELEASED
								OCT 15 1998
								FROM CONFIDENTIAL
								Thanks For Calling Halliburton
								Demaris Carter
								Emergency
								7
								crews



**HALLIBURTON ENERGY SERVICES**

HAL-1906-P

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

CUSTOMER COPY

TICKET

No. 106779 - 2

PAGE 1 OF 1

SERVICE LOCATIONS 1-25340 Houston Ks 2-25335 Houston Ks	WELL/PROJECT NO. 2 <sup>nd</sup> COSTLEY	LEASE STEWINS	COUNTY/PARISH Ks	STATE Ks	CITY/OFFSHORE LOCATION	DATE 8-16-96	OWNER Anadarko
TICKET TYPE SALES	NITROGEN JOB? YES NO	CONTRACTOR	RIG NAME/NO. No. 1252100	SHIPPED VIA	DELIVERED TO Loc.	ORDER NO.	
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE 010 8 3/4 SURFACE	WELL PERMIT NO.	WELL LOCATION SE OF FERTITA Ks		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING	DESCRIPTION	QTY.	U/M	UNIT PRICE	AMOUNT	
000-117	CONFIDENTIAL DEC 15 1996 RELEASED	1	MILEAGE	814	Miles	2.99	2511.6	
000-119		1	Gas Mileage	814	Miles	1.60	1314.4	
001-016		1	Pump charge	1691	FT		1360.0	
030-018		1	5w Top 1/2	1	Foot	8 3/4	130.0	
12 A		202-217	1	Slide shoe	1	Est.	8 3/4	216.0
24 A		815-19502	1	Insert float	1			355.0
27		815-19414	1	Fill up	1			64.0
40		306-61048	1	Centralizers	5			305.0
320	806-71460	1	Basket	1			124.0	
350	890-10802	1	Howco weld A	1			16.0	

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SURVEY

AGREE UN-DECIDED DIS-AGREE

PAGE TOTAL: 2956.3

FROM CONTINUATION PAGE(S): 9710.7

SUB-TOTAL: 9710.7

APPLICABLE TAXES WILL BE ADDED ON INVOICE

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): X

CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): Liora Davis

HALLIBURTON OPERATOR/ENGINEER: 59179

HALLIBURTON APPROVAL: \_\_\_\_\_

