

FORM MUST BE TYPED

ORIGINAL

SIDE ONE

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 ENERGY SERVICES

Operator Contact Person: DAVID W. KAPPL

Phone (316) 624-6253

Contractor: Name: CHEYENNE DRILLING

License: 5382

Wellsite Geologist: _____

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: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

11-24-97 12-8-97 1-23-98
Spud Date Date Reached TD Completion Date

API NO. 15- 129-21547-00-00

County MORTON

C - SW - SE Sec. 23 Twp. 33 Rge. 41 X W

660 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 USA BARKER "A" Well # 3

Field Name BERRYMAN

Producing Formation MORROW

Elevation: Ground 3282.0 KB _____

Total Depth 6300 PBDT 5100

Amount of Surface Pipe Set and Cemented at 1522 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 3175 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan AH. 1, 5-13-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 1400 ppm Fluid volume 700 bbls

Dewatering method used DRY, BACKFILL & RESTORE LOCATION.

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 L. Marc Harvey
L. MARC HARVEY
Title DRILLING TECHNICAL ASSISTANT Date 2-4-98

Subscribed and sworn to before me this 4th day of February
19 98.

Notary Public Freda L. Hinz

Date Commission Expires _____

FREDA L. HINZ
Notary Public - State of Kansas
My Appt. Expires 5-15-99

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution 2-5-1998
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)
KANSAS CORPORATION COMMISSION

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name USA BARKER "A" Well # 13

Sec. 23 Twp. 33 Rge. 41 East County MORTON
 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 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
CHASE	2098	OSAGE 5880
COUNCIL GROVE	2394	KINDERHOOK 6130
WABAUNSEE	2808	VIOLA 6190
TOPEKA	3038	
B/HHEEBNER	3470	
KANSAS CITY	3650	
MARMATON	4168	
CHEROKEE	4426	
MORROW	4773	
MISS. UNCON.	5283	
STE. GENEVIEVE	5332	
ST. LOUIS	5470	
SPERGEN	5649	

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
CONDUCTOR	24"	20"	94.0	48'	NA	NA	NA
SURFACE	12 1/2"	8-5/8"	23.0	1522	CLASS C/ CLASS C.	345/100	16% GEL, 3% SALT/ 2%CC.
PRODUCTION	7-7/8"	5-1/2"	15.5	5298	P+ MC/P+ MC/ 50/50 POZ.	25/95/180	2%CC, 1/4#SK FLC/2%CC 1/4#SK FLC/.5% HALAD 322, 1/4#SK FLC 10% SALT.
			F.O. TOOL @	3175	50/50 POZ	70	.6% HALAD 322, 10% SALT, 4#/SK EA2, 1/4#SK FLC.

ADDITIONAL CEMENTING/SQUEEZE RECORD

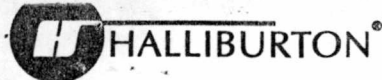
Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

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	5172-5177, CIBP @ 5100.		ACID: 500 GAL 7 1/2% HCL.
2	4945-4953, 4960-4974.		ACID: 1500 GAL 7 1/2% HCL.	4945-4974 (OA)
			FRAC: 18700 GAL FOAMED GEL & 37000# 16/30	4945-4974 (OA)
			SAND.	
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. 1-27-98 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		2489	3		

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: 4945-4974 (OA)



JOB SUMMARY 4239-1

TICKET # 231761	TICKET DATE 11-25-97
BDA / STATE KANSAS	COUNTY MORTON
PSL DEPARTMENT CEMENT	
CUSTOMER REP / PHONE	
API / UWI #	
JOB PURPOSE CODE 010	ORIGINAL

REGION North America	NWA/COUNTRY MID CONTINENT
MBU ID / EMP # 470101 H3377	EMPLOYEE NAME STALLING RAINES
LOCATION LIBERAL K.S.	COMPANY ANADARKO
TICKET AMOUNT	WELL TYPE 02
WELL LOCATION N WILBURTON K.S.	DEPARTMENT CEMENT
LEASE / WELL # USA BARKER # A-3	SEC / TWP / RNG

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
M. FOX E0423							
S. GRANT H4639							
D. COOPERING H2441							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420045							
52823-75496							
50737-662							
52920-75817							

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE	11-25-97	11-25-97	11-26-97	11-26-97
TIME	15:35	17:36	03:12	04:07

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe 1 1/2	1	HALCO
Guide Shoe	1	
Centralizers	4	
Bottom Plug		
Top Plug	1	
Head	1	
Packer		
Other WLD-A	1 LB	

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	NEW	23.00	3 5/8	0	1567.25	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				2 3/4 SURFACE
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER
 ORDERED Avail. Used
AVERAGE RATES IN BPM
 TREATED Disp. Overall
CEMENT LEFT IN PIPE
 FEET **43.73** Reason **SHOE JOINT**

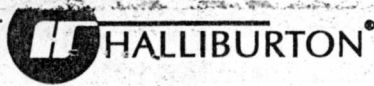
CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	345	4 Midcon	Bulk	3% CC 1/4 1/2 FLOCCEL	3.71	11.1
	100	SPR POW	Bulk	2% C.S. 1/4 1/2 FLOCCEL	3.71	14.8

Circulating _____	Displacement _____	Preflush: Gal - BBI 10	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp: BBI - Gal 72.51
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI 221.72	
		Total Volume Gal - BBI 329.23	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER'S REPRESENTATIVE SIGNATURE _____



JOB LOG 4239-5

TICKET #	231761	TICKET DATE	11/12/77
BDA / STATE	KANSAS	COUNTY	WICHITA
PSL DEPARTMENT	17	ORIGINAL	
CUSTOMER REP / PHONE			
WELL TYPE	2	API / UWI #	
DEPARTMENT	CONCRETE	JOB PURPOSE CODE	
SEC / TWP / RNG			

REGION	North America	NWA/COUNTRY	USA
MBU ID / EMP #	11277	EMPLOYEE NAME	STEARLING, RAYMOND
LOCATION	1001 R.S.	COMPANY	HALLIBURTON
TICKET AMOUNT		WELL LOCATION	1001 R.S.
LEASE / WELL #			

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS

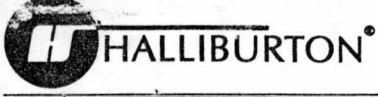
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	17:36							ON LOCATION
	17:44							SAFETY MEETING
	01:19							START CASING INTO HOLE
	02:26							DROPPED BALL
	02:38							HOOK UP IRON TO RIG PUMPS
	02:40					300		CIRCULATE WITH RIG
	03:05							HOOK UP IRON TO HALLIBURTON PUMPS
	03:12							START JOB
	03:13	6	10	-		150		PUMP H ₂ O AHEAD
	03:17	6	197.85	-		150		START LEAD CEMENT SLURRY 11.1% GAL
	03:42	6	23.87	-		130		START TAIL CEMENT SLURRY 14.8% GAL
	03:50	-	-	-		-		SHUT DOWN
	03:51	-	-	-		-		DROP PLUG
	03:52	7	97.51	-		370		PUMP DISPLACEMENT
	04:05	2	10	-		300		LAND PLUG
	04:07	2	1	-		1000		BUMP PLUG
	04:07	-	-	-		-		RELEASE PSE FRONT FIELD

JOB COMPLETE
 CIRCULATED 212 SACKS TO PIT ✓

THANK YOU
 STEARLING RAYMOND
 MELVIN FOX & CREW

FEB 5 1978

CONSERVATION DIVISION
 Wichita, Kansas



JOB SUMMARY 4239-1

TICKET # 231766	TICKET DATE 12-10-97
BDA / STATE KANSAS	COUNTY MORTON
PSL DEPARTMENT CEMENT	CUSTOMER REP / PHONE
API / UWI #	JOB PURPOSE CODE 035

REGION North America	NWA/COUNTRY MID CONTINENT
MBU ID / EMP # L10101 H3377	EMPLOYEE NAME STERLING RAINES
LOCATION LIBERAL KS	COMPANY ANADARKO
TICKET AMOUNT	WELL TYPE 02
WELL LOCATION A) HALLIBURTON KS	DEPARTMENT CEMENT
LEASE / WELL # USA RAKER #A-3	SEC / TWP / RNG

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
M. FOX 60422			
M. LONGWORTH 69510			
C. WILLIAMS 31714			

ORIGINAL

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420045							
3801							
52947 75496							
60404 6610							

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
12-9-97	23:00	12-10-97	11:09	12-10-97
				12:05

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe	1	HALCO
Guide Shoe	1	
Centralizers	25	
Bottom Plug		
Top Plug	1	
Head	1	
Packer		
Other		

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	15.5	5 1/2	0	16300	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

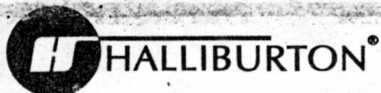
HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				5 1/2 HRS CEMENT
TOTAL		TOTAL		

ORDERED	HYDRAULIC HORSEPOWER	Used
	Avail.	
TREATED	AVERAGE RATES IN BPM	Overall
	Disp.	
FEET 4510	CEMENT LEFT IN PIPE	
	Reason	SHUT TRIP

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	120	MIDCONT	BULK	2% CC #1000	2.00	128
	180	500 per lb	BULK	10% SALT 5/16" 112105 222 7/8" 50000	1.78	142

Circulating _____ Displacement _____ Preflush: Gal - BBI _____ Type _____
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal _____
 Average _____ Frac Gradient _____ Treatment Gal - BBI _____ Disp: BBI - Gal **125.02**
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI **74.87**
 Total Volume Gal - BBI **275.09**

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____
THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER'S REPRESENTATIVE SIGNATURE _____



JOB LOG 4239-5

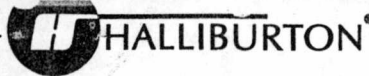
REGION North America	NWA/COUNTRY MAD CARIBBEAN	TICKET # 29766	TICKET DATE 2/1/99
MBU ID / EMP # L20014 112577	EMPLOYEE NAME STEARNS RAINC	BDA / STATE L2001	COUNTY ...
LOCATION ...	COMPANY HALLIBURTON	PSL DEPARTMENT ...	CUSTOMER REP / PHONE ...
TICKET AMOUNT	WELL TYPE ...	API / UWI #	
WELL LOCATION ...	DEPARTMENT ...	JOB PURPOSE CODE ...	
LEASE / WELL # ...	SEC / TWP / RNG		

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	01:51							ON LOCATION
	02:05							SAFETY MEETING
	07:07							START CASING INTO HOLE
	09:37							DROPPED BALL
	10:07							HOKED UP IRON TO RIG PUMPS
	10:12							CIRCULATE WITH RIG
	11:08							HOKED UP IRON TO HALLIBURTON PUMPS
	11:09							START JOB
	11:10	3	8					100 PUMP H ² O AHEAD
	11:12	3	10					150 PUMP SUPER FLUSH
	11:15	3	8					150 PUMP H ² O BEHIND
	11:20	6	53.84					300 START LEAD CEMENT 12.8 ^g /GAL
	11:27	6	91.03					200 START TAIL CEMENT 14.8 ^g /GAL
	11:39							SHUT DOWN
	11:56							DROP PLUG
	11:40	6	125.02					200 START DISPLACEMENT
	11:58	3	30					500 LAND PLUG
	12:02	3	1					2700 BUMP PLUG
	12:03							2700 SHUT DOWN
	12:05							RELEASE P.S.I. FLOAT HELD
								JOB COMPLETE
								THANK YOU
								STEARNS RAINC
								MCQUIB FOX
								+ CREW

FEB 5 11:40



JOB SUMMARY 4239-1

TICKET # **234294** TICKET DATE **1-7-98**
BDA / STATE **Ks** COUNTY **Morton**

REGION **North America** NWA/COUNTRY _____ MBU ID / EMP # **L10102** EMPLOYEE NAME **59179 Dennis Cove** PSL DEPARTMENT **5001**
 LOCATION **Liberal Ks** COMPANY **Amadeco Petro.** CUSTOMER REP / PHONE _____
 TICKET AMOUNT _____ WELL TYPE **01** API / UWI # _____
 WELL LOCATION **SE of Wilburton** DEPARTMENT **5001 Cement** JOB PURPOSE CODE **205 Cement Post Collar**
 LEASE / WELL **A3 USA Bank** SEC / DWP / RNS **23 / 335 / 41W**

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
D. Cove 59179	Basile 47303		
E. Charles H3456			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420041	140	3801	140				
53552-78262	140						

ORIGINAL

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	1-7-98	1-7	1-8	1-8-98
TIME	0430	0815	0950	1415

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

WELL DATA

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing		5 1/2	GL	5298	
Liner					
Liner					
Tbg/D.P.		2 3/8	KB	3115	
Tbg/D.P.					
Open Hole					SHOTS/FT.
Perforations					
Perforations					
Perforations					

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type HCL	250	7 1/2
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other 180 Hald		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				Cement Post Collar
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER
 ORDERED _____ Avail. _____ Used _____
 TREATED _____ AVERAGE RATES IN BPM **1998**
 FEET _____ Disp. _____ Overall _____
 CEMENT LEFT IN PIPE _____
 Reason _____

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	70	50/50 Pz	Prem	4# EAZ - 10% SALT 6/10% Hald 322 1/4# Hald	1.28	114.4

Circulating **95** Displacement **2.5** Preflush: Gal - BBI _____ Type _____
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal _____
 Average _____ Frac Gradient _____ Treatment Gal - BBI _____ Disp: BBI - Gal **11.5**
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI **16.0**
 Total Volume Gal - BBI _____

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____
THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER'S REPRESENTATIVE SIGNATURE _____

REGION North America	NWA/COUNTRY	BDA / STATE <u>Ks</u>	COUNTY <u>Montgomery</u>
MBU ID / EMP # <u>L10162</u>	EMPLOYEE NAME <u>2374 Dennis Lane</u>	PSL DEPARTMENT <u>5001</u>	
LOCATION <u>Lynch Ks</u>	COMPANY <u>Amoco Prod. Co.</u>	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE	API / UWI #	
WELL LOCATION <u>SE of W. 1/4 Sec 10, T23N, R23E, S41W</u>	DEPARTMENT <u>Prod. Control</u>	JOB PURPOSE CODE	
LEASE / WELL # <u>A3 150 Bunker</u>	SEC / TWP / RNG <u>23 / 23S / 41W</u>		

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
<u>John 3917</u>	<u>Paul</u>		
<u>Steve 4345</u>			

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0430							Time Called
	815							Time Ready
	0900							Time Ready
								Run Two in Hole
	1400							Try locate Port Cellar Trip Two out of Hole
	1600							Run Two in Hole Trip Two out of Hole
	1800							Time Released from Loc.
1-8 97	0800							Time Called
	0900							Time Ready
	0957							Press up to 1500
	0954							Press up to 1500 + Hold
	1003	2%	8			1100		Produce water
	1007		20					Start Mud Pump
	1008		8					Start water Relief
	1009					500		Flush Pump 2.6 gpm
	1028							Start M/Cast
	1035		16					Start Ann Hole
	1042	2%						Start Ann
	1046		11 1/2			1460		Start Ann
	1048							Close Tool
	1052							Press 1050 Run 2 chart
	1105		18					Change out
	1110							Start Pump out Shut D
								Run Two in Hole To 5285 FT
	1225							Hook up wash Trip Down
	1228		5					Start Pumping water Break Circ.
	1231		250 3/4					Start Add 250 gpm HCl 7 1/2%
	1233							Start Flush
	1252		25					Shut Down Break hose
	1300							Hook up to Release out
	1305							Start Pumping
	1330	2.3	25					Inject 1000
	1415		75 1/2					Shut Down
	1410							Break hose Lay Down Two
	1415							Finish up

RECEIVED
FEB 5 1998
CONSERVATION DIVISION
Wichita, Kansas

Thanks for getting Halliburton Energy Services & Crew

DRILLERS LOG

ANADARKO PETROLEUM CORPORATION
USA BARKER A-3
SECTION 23-T33S-R41W
MORTON COUNTY, KANSAS

ORIGINAL

COMMENCED: 11-24-97
COMPLETED: 12-10-97

SURFACE CASING: 1522' OF 8 5/8" CMTD
W/375 SKS PREMIUM PLUS + 3% CC + 1/4#/SK
FLOCELE. TAILED IN W/100 SKS PREMIUM
PLUS + 2% CC + 1/4 #/SK FLOCELE.

FORMATION

DEPTH

FORMATION	DEPTH
SURFACE HOLE	0 - 1522
SHALE	1522 - 1680
RED BED	1680 - 2099
LIMESTONE & SHALE	2099 - 4535
CHEROKEE, LIMESTONE & SHALE	4535 - 4720
LIMESTONE & SHALE	4720 - 5075
MORROW & SHALE	5075 - 5220
SHALE	5220 - 5230
MORROW	5230 - 5265
LIMESTONE & SHALE	5265 - 5550
MORROW, SHALE & LIMESTONE	5550 - 5602
LIMESTONE & SHALE	5602 - 5905
SHALE & CHERT	5905 - 6075
LIMESTONE & SHALE	6075 - 6131
LIMESTONE	6131 - 6174
OSAGE	6174 - 6265
SHALE & LIMESTONE	6265 - 6300 RTD

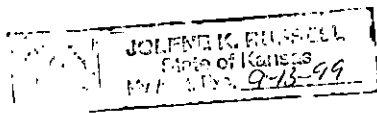
I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 11TH DAY OF DECEMBER, 1997.



JOLENE K. RUSSELL

NOTARY PUBLIC

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

15-129-21547

No 10801

Test Ticket

2-99 3:45 PM
using
7 pages

Well Name & No. <u>U.S.A. Baker A-3</u>	Test No. <u>1</u>	Date <u>12-2-97</u>
Company <u>Amadoko Pet. Corp.</u>	Zone Tested <u>Upper Maroon</u>	
Address <u>Liberal KS</u>	Elevation <u>3285</u> KB <u>3282</u> GL	
Co. Rep / Geo. <u>Rick Emmert</u>	Cont. <u>Cheyene Rig 7</u>	Est. Ft. of Pay <u>8</u> Por. <u>12</u> %
Location: Sec. <u>23</u>	Twp. <u>37.5</u>	Rge. <u>41W</u> Co. <u>Morton</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) <u></u>

Interval Tested <u>4935-4962</u>	Initial Str Wt./Lbs. <u>113000</u>	Unseated Str Wt./Lbs. <u>113000</u>
Anchor Length <u>27'</u>	Wt. Set Lbs. <u>24000</u>	Wt. Pulled Loose/Lbs. <u>45,000</u>
Top Packer Depth <u>4930</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>4935</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>4962</u>	Wt. Pipe Run <u>—</u>	Drill Collar Run <u>699</u>
Mud Wt. <u>9.0</u> LCM <u>8#</u> Vis. <u>60</u> WL <u>9.8</u>	Drill Pipe Size <u>4 1/2 X 11/2</u>	Ft. Run <u>4205</u>

Blow Description Strong ORB immediately, BTS in 4 min. "See Flow Chart" IFP
No Blow Back TEST
See Flow Chart IFP
No Blow Back ESTP

Recovery — Total Feet <u>270</u>	GIP <u>4634</u>	Ft. in DC <u>270</u>	Ft. in DP <u>0</u>
Rec. <u>240</u> Feet Of <u>Slit Cut mud</u>	<u>3</u> %gas	%oil	%water <u>97</u> %mud
Rec. <u>30</u> Feet Of <u>Slit cut mud</u>	%gas	%oil <u>14</u>	%water <u>86</u> %mud
Rec. <u>—</u> Feet Of <u>—</u>	%gas	%oil	%water %mud
Rec. <u>—</u> Feet Of <u>—</u>	%gas	%oil	%water %mud

BHT 131°F °F Gravity — °API D@ — °F Corrected Gravity — °API

RW 0.70 @ 55 °F Chlorides 10,700 ppm Recovery Chlorides 1,200 ppm System

(A) Initial Hydrostatic Mud 2505 / 2438 PSI Recorder No. 3017 02:36 T-Started 2:45 AM

(B) First Initial Flow Pressure 490 / 566 PSI (depth) 4937 T-Open 5:35 AM

(C) First Final Flow Pressure 549 / 494 PSI Recorder No. 10242 T-Pulled 10:05 AM

(D) Initial Shut-in Pressure 915 / 877 PSI (depth) 4955 T-Out —

(E) Second Initial Flow Pressure 399 / 356 PSI Recorder No. — STAT RECEIVED

(F) Second Final Flow Pressure 415 / 383 PSI (depth) — 11:00 AM

(G) Final Shut-in Pressure 922 / 882 PSI Initial Opening 30 Test FEB 5 1998

(H) Final Hydrostatic Mud 2488 / 2416 PSI Initial Shut-in 60 Jars —

C0270236.017

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST, TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]

Final Flow 60 Safety Joint —

Final Shut-in 120 Straddle —

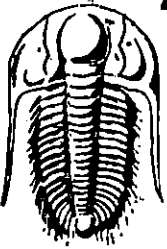
Circ. Sub —

Sampler —

Extra Packer —

Elect. Rec. —

Other —



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

ORIGINAL

GAS VOLUME REPORT

Araduka Petroleum Corp
OPERATOR

U.S. No. 1 Backer A-3
WELL NAME AND NO.

1
DST NO.

ZFP

GTS 4 Min. into ZFP

Min.	Inn. of Water PSIG	Orifice Size	CF/D	Min.	Inn. of Water PSIG	Orifice Size	CF/D
5	8	1"	415,000				
10	9	"	442,000				
15	10	"	472,000				
20	12	"	526,000				
25	16	"	627,000				
30	20	"	725,000				

F.F.P.

5	12	1 1/4"	893,000				
10	18	"	1,146,000				
20	20	"	1,233,000				
30	20	"	1,233,000				
40	20	"	1,233,000				
50	20	"	1,233,000				
60	20	"	1,233,000				

SI

FEB 5 1970

Conservation Division
Wichita, Kansas

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

ORIGINAL

FLUID SAMPLER DATA

Ticket No. 10801 Date 12-2-97

Company Name Anadarko Pet.

Lease USA, Barker A-3 Test No. 1

County Martens Sec. 23 Twp. 33S Rng. 4W

Total Volume = 5000 mL
SAMPLER RECOVERY

PIT MUD ANALYSIS

Gas 11.36 Cubic Ft. ~~ML~~

Chlorides 1,900 ppm.

Oil — ML

Resistivity 3.5 ohms @ 58 F

Mud — ML

Viscosity 60

Water — ML

Mud Weight 9.0

Other — ML

Filtrate 9.8

Pressure 760 PSI

Other 8# LoCell

Total Rec. No Fluid ML

SAMPLER ANALYSIS

PIPE RECOVERY

Resistivity — ohms @ — F

TOP Resistivity 2.9 ohms @ 58° F

Chlorides No Fluid Rec. ppm.

Chlorides 2,300 ppm.

Gravity — corrected @ 60 F

MIDDLE Resistivity — ohms @ — F

Chlorides — ppm.

BOTTOM Resistivity 0.70 ohms @ 55 F

Chlorides 10,700 ppm.

RECEIVED
FEB 5 1998
W. H. HAYES
W. H. HAYES
W. H. HAYES

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL
No 10802

Test Ticket

Well Name & No. U.S. A. Barker A-3 Test No. 2 Date 12-3-97
 Company Amadeo Pet. Corp. Zone Tested Marion
 Address Liberal KS Elevation 3295 KB 3282 GL
 Co. Rep / Geo. STEVE RIDEVOUR Cont. Cheyenne Rig 7 Est. Ft. of Pay 35 Por. 10%
 Location: Sec. 23 Twp. 33S. Rge. 41W. Co. Marion State KS.
 No. of Copies 5 Distribution Sheet (Y, N) N. Turnkey (Y, N) N. Evaluation (Y, N) _____

Interval Tested 5163 - 5230 Initial Str Wt./Lbs. 114000 Unseated Str Wt./Lbs. 114000
 Anchor Length 67 Wt. Set Lbs. 22,000 Wt. Pulled Loose/Lbs. 45,000
 Top Packer Depth 5158 Tool Weight 1,800
 Bottom Packer Depth 5163 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 5230 Wt. Pipe Run _____ Drill Collar Run 699
 Mud Wt. 9.0 LCM 8# Vis. 58 WL 8.5 Drill Pipe Size 4 1/2 X 14 Ft. Run 4433
 Blow Description Weak 1/2" Blow. Dried in 28 Min. TFP

No Blow F.F.P.

*** TOOL PLUGGED ***

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
<u>20</u>	—	<u>20</u>	—			<u>100</u>	
Rec. <u>20</u>	Feet Of <u>Mud</u>						
Rec. _____	Feet Of _____						
Rec. _____	Feet Of _____						
Rec. _____	Feet Of _____						
Rec. _____	Feet Of _____						

BHT 134 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW 2.8 @ 60 °F Chlorides 2,350 ppm Recovery Chlorides 8.5 ppm System

- (A) Initial Hydrostatic Mud 2584 / 2515 PSI Recorder No. 3017 "B-09" T-Started 1:15
 (B) First Initial Flow Pressure 203 / 457 PSI (depth) 5165 T-Open 4:20 PM
 (C) First Final Flow Pressure 1235 / 1179 PSI Recorder No. 10242 T-Pulled 7:20 PM
 (D) Initial Shut-in Pressure 1239 / 1188 PSI (depth) 5190 T-Out 12:30 AM
 (E) Second Initial Flow Pressure 1239 / 1188 PSI Recorder No. _____
 (F) Second Final Flow Pressure 1239 / 1189 PSI (depth) _____
 (G) Final Shut-in Pressure 1239 / 1187 PSI Initial Opening 30 Test _____
 (H) Final Hydrostatic Mud 2560 / 2482 PSI Initial Shut-in 60 Jars 1 ✓
 Final Flow 30 Safety Joint 1 ✓
 Final Shut-in 60 Straddle _____
 Circ. Sub _____
 Sampler 1 ✓
 Extra Packer 1 ✓
 Elect. Rec. 1 ✓
 Other _____ ✓

C0371309.017

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]
 Our Representative [Signature]

TOTAL PRICE \$ 1,350.00

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

ORIGINAL

FLUID SAMPLER DATA

Ticket No. 10802 Date 12-3-97

Company Name Anadarko Pet.

Lease U.S.A. Becker A-3 Test No. 2

County Martin Sec. 23 Twp. 33S Rng. 41W

Total Volume = 5000 mL.
SAMPLER RECOVERY

Gas No Odor ML

Oil _____ ML

Mud 4400 ML

Water _____ ML

Other _____ ML

Pressure 45 PSI

Total Rec. 4400 ML

PIT MUD ANALYSIS

Chlorides 2,300 ppm.

Resistivity 2.9 ohms @ 58 F

Viscosity 58

Mud Weight 9.0

Filtrate 8.5

Other 8# LeColMo

SAMPLER ANALYSIS

Resistivity 2.8 ohms @ 60 F

Chlorides 2,350 ppm.

Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM
Resistivity 2.8 ohms @ 60 F

Chlorides 2,350 ppm.

RECEIVED
STATE OF KANSAS COMMISSION

FEB 5 1998

REGISTRATION DIVISION
Wichita, Kansas

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket

No 10803

Well Name & No. USA A Becker A-3 Test No. 3 Date 12-5-97
 Company Amadeo Petroleum Corp Zone Tested St. Louis
 Address Liberal KS Elevation 3295 KB 3282 GL
 Co. Rep / Geo. Steve Ridenour Cont. Choyene Rig 7 Est. Ft. of Pay 5 Por. 7 %
 Location: Sec. 23 Twp. 33S Rge. 4/W Co. Morton State KS
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) _____

Interval Tested 5485 - 5550 Initial Str Wt./Lbs. 115,000 Unseated Str Wt./Lbs. 115,000
 Anchor Length 65 Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth 5480 Tool Weight 1,800
 Bottom Packer Depth 5485 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 5550 Wt. Pipe Run _____ Drill Collar Run 699
 Mud Wt. 9.2 LCM 8# Vis. 51 WL 9.6 Drill Pipe Size 4 1/2 XH Ft. Run 4755
 Blow Description Surface Blow, Built to 4 1/2" in Bucket I.F.P.
Surface Blow, Built to 5" in Bucket F.F.P.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
Rec. <u>40</u> Feet Of <u>Mud out Wt.</u>	_____	<u>600</u>	_____	_____	_____	<u>70</u>	<u>30</u>
Rec. <u>560</u> Feet Of <u>Slit Mud out Wt.</u>	_____	_____	_____	_____	_____	<u>96</u>	<u>4</u>
Rec. _____ Feet Of _____	_____	_____	_____	_____	_____	_____	_____
Rec. _____ Feet Of _____	_____	_____	_____	_____	_____	_____	_____
Rec. _____ Feet Of _____	_____	_____	_____	_____	_____	_____	_____

BHT 146 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW 0.14 @ 70 °F Chlorides 50,000 ppm Recovery Chlorides 2,100 ppm System
 (A) Initial Hydrostatic Mud 2736 / 2634 PSI Recorder No. 3017 "12:22" T-Started 12:45 P.M.
 (B) First Initial Flow Pressure 88 / 37 PSI (depth) 5487 T-Open 2:50 P.M.
 (C) First Final Flow Pressure 126 / 144 PSI Recorder No. 13630 T-Pulled 7:20 P.M.
 (D) Initial Shut-in Pressure 1399 / 1415 PSI (depth) 5517 Out 12:30 A.M.
 (E) Second Initial Flow Pressure 183 / 145 PSI Recorder No. _____
 (F) Second Final Flow Pressure 294 / 311 PSI (depth) _____
 (G) Final Shut-in Pressure 1378 / 1396 PSI Initial Opening 30 Test
 (H) Final Hydrostatic Mud 2668 / 2617 PSI Initial Shut-in 60 Jars
 Final Flow 60 Safety Joint
 Final Shut-in 120 Straddle _____

C0571222.017

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Steve Ridenour

Stamp: FEB 5 1998
 Circ. Sub
 Sampler
 Extra Packer
 Elect. Rec
 Other _____

W. DIVISION
 W. MO, Kansas

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

ORIGINAL

FLUID SAMPLER DATA

Ticket No. 10803 Date 12-5-97

Company Name Anadarko Petr

Lease U.S.A. Baker A-3 Test No. 3 (5485-5550)

County Martin Sec. 23 Twp. 33S Rng. 4/W

Total Volume 5000

SAMPLER RECOVERY

Gas 0 Cubic Ft. ML

Oil 0 ML

Mud 400 ML

Water 4600 ML

Other — ML

Pressure 185 PSI

Total Rec. 5000 ML

PIT MUD ANALYSIS

Chlorides 2,100 ppm.

Resistivity 305 ohms @ 54 F

Viscosity 51

Mud Weight 9.2

Filtrate 9.6

Other LCM 8#

SAMPLER ANALYSIS

Resistivity 0.14 ohms @ 70° F

Chlorides 50,000 ppm.

Gravity — corrected @ 60 F

PIPE RECOVERY

TOP

Resistivity 0.26 ohms @ 70° F

Chlorides 25,000 ppm.

MIDDLE

Resistivity — ohms @ — F

Chlorides — ppm.

BOTTOM

Resistivity 0.14 ohms @ 70° F

Chlorides 50,000 ppm.

RECEIVED
FEB 5

Wichita, Kansas