

FORM MUST BE TYPED

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: NONE-SHOW

Operator Contact Person: DAVID W. KAPPLF

Phone (316) 624-6253

Contractor: Name: CHEYENNE DRILLING

License: 5382

Wellsite Geologist: _____

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SHOW 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 PBT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

5-13-97 5-20-97 6-26-97
Spud Date Date Reached TD Completion Date

API NO. 15- 129-21512-00-00

County MORTON

NE - NW Sec. 30 Twp. 34 Rge. 41 E W

660 Feet from (circle one) Line of Section

1980 Feet from (circle one) Line of Section

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

Lease Name CYR "A" Well # 2

Field Name TALOGA

Producing Formation CHEROKEE

Elevation: Ground 3458.6 KB _____

Total Depth 5300 PBTD 4494

Amount of Surface Pipe Set and Cemented at 1501 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 3312 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan A/H. 1-3-16-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 1000 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. _____

RECEIVED
KANSAS CORP COM
MORTON CO
SEP 10 1997

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 9-9-97

Subscribed and sworn to before me this 9th day of September 19 97.

Notary Public Freda L. Hinz
Date Commission Expires _____

FREDA L. HINZ
Notary Public - State of Kansas
My Appt. Expires 5-15-97

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

1A. 370

SIDE TWO

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

Sec. 30 Twp. 34 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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHASE	2121	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	COUNCIL GROVE	2420	
List All E.Logs Run: CBL-CCL-GR, DIL, CNL-LDT, ML, SONIC.		WABAUNSEE	2794	
		TOPEKA	3036	
		LANSING	3554	
		KANSAS CITY	3700	
		MARMATON	4040	
		CHEROKEE	4271	
		MORROW	4615	
		MISSISSIPPIAN	5188	

CASING RECORD							
<input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12-1/4"	8-5/8"	23.0	1501	P+ MIDCON 2/ P+	340/100	3%CC, 1/4%SK FLC/ 2%CC, 1/4%SK FLC.
PRODUCTION	7-7/8"	5-1/2"	15.5	4552	VERSASET	75	.6% HALAD 322, 5% KCl, .9% VERSASET, 1/4%SK FLC.
			D.V. TOOL @	3312	P+ MIDCON 2	100	.6% HALAD 322.

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
3	4416-4432.	ACID: 800 GAL 7 1/2% FeHCL.	4416-4432

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. NONE-SIOW	Producing Method <input 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 2 Bbls.	Gas TSTM Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas: TO BE DETERMINED METHOD OF COMPLETION Perf. Production Interval 4416-4432

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
 (If vented, submit ACO-18.) Other (Specify) _____

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15-129-21512

ORIGINAL

Test Ticket

No 9838

Well Name & No. <u>CYR A-2</u>	Test No. <u>1</u>	Date <u>5-18-97</u>
Company <u>Anadacko Pet. Corp.</u>	Zone Tested <u>Cherokee</u>	
Address <u>Liberal KS</u>	Elevation _____	KB _____ GL _____
Co. Rep / Geo. <u>Jerry Kaski</u>	Cont. <u>Cherokee Ris #7</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>30</u>	Twp. <u>34S</u>	Rge. <u>NW</u> Co. <u>Morton</u> State <u>KS</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>4410-4447</u>	Initial Str Wt./Lbs. <u>89000</u>	Unseated Str Wt./Lbs. <u>89,800</u>
Anchor Length <u>37'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>100,000</u>
Top Packer Depth <u>4405</u>	Tool Weight <u>4,800</u>	
Bottom Packer Depth <u>4410</u>	Hole Size — 7 7/8" <u>X</u>	Rubber Size — 6 3/4" <u>X</u>
Total Depth <u>4447</u>	Wt. Pipe Run _____	Drill Collar Run <u>723'</u>
Mud Wt. <u>9.1</u> LCM <u>4</u> Vls. <u>45</u> WL <u>10.0</u>	Drill Pipe Size <u>4 1/2"</u>	Ft. Run <u>3696'</u>
Blow Description <u>Fail Blow Built to B.O.B. in 18 min.</u>		

2nd. opening No. Blow for 10 min. Flashed Tool Had Weat. Blow Built to 3 in blow.

Recovery — Total Feet <u>65'</u>	GIP <u>775'</u>	Ft. In DC <u>65'</u>	Ft. in DP _____
Rec. <u>65'</u> Feet Of <u>dry mud</u>	%gas _____	%oil _____	%water <u>100</u> %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____

BHT _____ °F Gravity _____	°API D@ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____ °F Chlorides _____	ppm Recovery _____	Chlorides <u>4,100</u>	ppm System _____
(A) Initial Hydrostatic Mud <u>2185</u> <u>2181</u> PSI	Recorder No. <u>3405</u>	T-Started <u>7:00 AM</u>	
(B) First Initial Flow Pressure <u>16</u> <u>85</u> PSI	(depth) <u>4414</u>	T-Open <u>10:14 AM</u>	
(C) First Final Flow Pressure <u>36</u> <u>77</u> PSI	Recorder No. <u>2836</u>	T-Pulled <u>2:44 AM</u>	
(D) Initial Shut-in Pressure <u>920</u> <u>858</u> PSI	(depth) <u>4444</u>	T-Out <u>6:20 AM</u>	
(E) Second Initial Flow Pressure <u>36</u> <u>85</u> PSI	Recorder No. _____		
(F) Second Final Flow Pressure <u>71</u> <u>94</u> PSI	(depth) _____		
(G) Final Shut-in Pressure <u>937</u> <u>867</u> PSI	Initial Opening <u>30 min</u>	Test <u>Conventional</u>	
(H) Final Hydrostatic Mud <u>2098</u> <u>2118</u> PSI	Initial Shut-in <u>60 min</u>	Jars _____	
<u>API in -</u>	Final Flow <u>60 min</u>	Safety Joint <u>✓</u>	
<u>AK-1</u>	Final Shut-in <u>120 min</u>	Straddle _____	
		Circ. Sub <u>✓</u>	
		Sampler _____	
		Extra Packer _____	
		Elect. Rec. <u>✓</u>	
		Other _____	

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 Joe Shuman

Our Representative Mike Colaninno

MAY 19 '97 7:09

ORIGINAL

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9838 Date 5-18-97
 Company Name Anadarko Pet Corp
 Lease CYR #A-2 Test No. DST #1
 County Morton Sec. 30 Twp. 38S Rng. 11W

SAMPLER RECOVERY

Gas 2.9 cubic ft. ML
 Oil _____ ML
 Mud 2800 ML
 Water _____ ML
 Other _____ ML
 Pressure 650 PSI
 Total 4000 ML

PIT MUD ANALYSIS

Chlorides 1100 ppm.
 Resistivity _____ ohms @ _____ F
 Viscosity 45
 Mud Weight 91
 Filtrate 10.0
 Other 1cm 4"

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 MIDDLE
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 BOTTOM
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.



JOB SUMMARY

4239-1

TICKET # **183997** TICKET DATE

REGION North America	NWA/COUNTRY	BDA / STATE Ks	COUNTY Moctow
MBU ID / EMP # L10102	EMPLOYEE NAME 59179 Dennis Case	PSL DEPARTMENT 5001	ORIGINAL
LOCATION Lisen Lk 25540	COMPANY Anadarko PTECO Corp	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE	API / UWI #	
WELL LOCATION W of Wilburton	DEPARTMENT 5001	JOB PURPOSE CODE 010 8 3/8 Surface	
LEASE / WELL A 2 Cyr	SEC / TWP / RANG 30 / 34 S / 41 W		

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)
Case 59179	C. Case 47061		
C. Case 09258			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
4200-11	118	51984-77031	27				
53552-78202	118						

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
	5-14	5-14	5-14	5-14-97
TIME	0100	0730	1005	1330

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Fleet Collar Jugon 1 1/2	1	HORCO
Fleet Shoe F-Lip	1	
Guide Shoe Big	1	
Centralizers	4	
Bottom Plug Basket	1	
Top Plug	1	
Head	1	
Packer		
Other Weld. X	100	

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing		23	8 3/8	KB	1500	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole			12 1/4	GL	1503	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	
TOTAL		TOTAL		

ORDERED	HYDRAULIC HORSEPOWER	Avail.	Used
TREATED	AVERAGE RATES IN BPM	Disp.	Overall
FEET 392	CEMENT LEFT IN PIPE	Reason Shoe clean	

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	340	Prem Plus	Midlow	3% CC 1/4 # Floccule	3.22	11.1
	100	Prem Plus		2% CC 1/4 # Floccule	1.32	14.8

Circulating	Displacement	Preflush:	Gal - BBI	Type
Breakdown	Maximum	Load & Bkdn:	Gal - BBI	Pad: BBI - Gal
Average	Frac Gradient	Treatment	Gal - BBI	Disp: BBI - Gal 940
Shut In: Instant	5 Min	Cement Slurr	Gal - BBI 218 mls	
	15 Min	Total Volume	Gal - BBI	

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

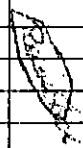
THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER'S REPRESENTATIVE SIGNATURE _____

REGION North America	NWA/COUNTRY	BDA / STATE KS	COUNTY Montezuma
MBU ID / EMP # L10102	EMPLOYEE NAME Dennis Lora	PSL DEPARTMENT 001	ORIGINAL
LOCATION L10102 20040	COMPANY American Petro Corp	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE	API / UWI #	
WELL LOCATION L10102	DEPARTMENT 001	JOB PURPOSE CODE 7/4	
LEASE / WELL A 2 Cys	SEC / TWP / RNG 30 / 34 / 11 W		

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	
	0400							Time Collected
	0800							Time Ready
	0730							Time out
	0745							Final Delay Case Hole Trap OFF OF Hole To Run Casing
	0930							Start Plug Casing
	1005							Hookup Air Joint Down
	1150							Casing in Hole
	1150							Hookup To Circulate Casing
	1158							Circulate Casing w/ 1000 Pps
	1200							Circulate Mud To Ground Level
	1215							Hookup To Pump Truck
	1220	5.8				100		Start Mixing Cement
	1230		194.98			150		Start Tail Cement
	1236		23.59			156		Finish Mixing Cement
	1257		218.46			0		Start Cement Deep Plug
	1258	5				75		Start Displacement
	3:30	3.0	92			380		Plug Pump wash Pump's Lines Front Hold
						1860		Circulate Cement to DTE

Thanks For Calling Halliburton Energy
Dennis Lora
Crew



TICKET # **5-21-97** TICKET DATE **184207**
 BDA / STATE **KANSAS** COUNTY **Morton**
 PSL DEPARTMENT **3001 CMT**
 CUSTOMER REP / PHONE
 API / UWI #
 JOB PURPOSE CODE **075**

REGION **North America** NWA/COUNTRY **U.S.A.**
 MBU ID / EMP # **L10105 0-4360** EMPLOYEE NAME **Robert Edwood**
 LOCATION **L10105 KANSAS** COMPANY **ANADARKO**
 TICKET AMOUNT WELL TYPE **GI**
 WELL LOCATION **WILBURTON KS** DEPARTMENT **3001 CMT**
 LEASE / WELL # **CR4 A-2** SEC / TWP / RNG **30 34 S. 41 W.**

ORIGINAL

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
R. Edwood 0-4360							
S. RAJES H 3377							
L. PATERSON H8786							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
3042 PU	106	4115	27				
52938	106	75237	-				
7131	-						

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	5-21-97	5-21-97	5-22-97	5-22-97
TIME	1300	2100	0326	0915

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		H
Float Shoe w/Flt	1	O
Guide Shoe		W
Centralizers S-1	18	C
Bottom Plug D.H. Plug	1	H O
Top Plug D.H. Foot	1	O
Head OC PC	1	W
Packer CAD B34	1	O
Other		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	15.5	5 1/2	R.B	4552	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole			7 1/8	GL	5300	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 _____	In _____
Perfpac Balls _____	Qty. _____	
Other _____		
Other _____		
Other _____		
Other _____		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				5 1/2 PU
				Low speed
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER
 ORDERED _____ Avail. _____ Used _____
 TREATED _____
 FEET **38.24**
 CEMENT LEFT IN PIPE _____ Reason **Shut In**

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	75	HEMICON	B	19% Urethane Ser, 6% HALAD 322, 5% KCC 1/4# 15# Floccle	1.41	14.5
2	100	MIDCON P+	B	2% C.C., 6% HALAD 322	2.0	12.8

Circulating _____ Displacement _____ Preflush: Gal - BBI _____ Type _____
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal _____
 Average _____ Frac Gradient _____ Treatment Gal - BBI **set** Disp: BBI - Gal _____
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI **sub 60**
 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 *[Signature]*



JOB LOG 4239-5

TICKET #	TICKET DATE
3-11-97	11/11/97
BDA / STATE	COUNTY
Edwards	Edwards
PSL DEPARTMENT	
CUSTOMER REP / PHONE	
API / UWI #	
DEPARTMENT	JOB PURPOSE CODE
SEC / TWP / RNG	

REGION	NWA/COUNTRY
North America	
MBU ID / EMP #	EMPLOYEE NAME
2103 J. H. H.	Robert Sterling
LOCATION	COMPANY
Edwards	Halliburton
TICKET AMOUNT	WELL TYPE
WELL LOCATION	DEPARTMENT
LEASE / WELL #	SEC / TWP / RNG

ORIGINAL

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	
5-21-97	19:30							Called Joe Kelly
	21:00							and Joe Rig (Edwards) N.A.
5-22-97	00:45							START CSG
	01:40							INSTALL D.V. Tool @ 3312'
	03:15							CSG on Bottom
	3:26							Close 4 1/2" Pig
	4:00							Plug Rat Hole
	4:07							Plug Mouse Hole
	4:20							Job Halliburton to CSG
	4:25	4.3	26					200 START PREFLUSH 20B/20, 10B Super Flush, 20 H ₂ O
	4:31	3	17.8					110 START CNT @ 14.5 g/gal
	4:37							UNC SHUT DOWN
	4:46							UNC DRAG SHUT OFF PUMP / WASH to PIT
	4:42	9.2	30.8					-C- START H ₂ O Displacement
	4:48	6.5	78.8					135 START DRUG DISPLACEMENT
	5:00							200 Slow Rate
	5:04							260 Plug Down
	5:05							800 Release Back Float Holders
	5:07							Drag Movable Bomb
	5:26							600 Open All Shut
	5:30							Close with Rig
								2ND STAGE
	09:20							Hook to Halliburton
	9:21	4	20					20 START PREFLUSH (20B H ₂ O)
	9:26	3.5	35.6					220 START CNT @ 12.8 g/gal
	9:36							UNC SHUT DOWN
	9:37							UNC DRAG Closing Plug / WASH to PIT
	9:38	6.8	68.8					-C- Displacement
	9:48	2	10					260 Slow Rate
	9:54							270 Plug Down Close D.V. Tool
	9:59							1500 Release Back Tool Closed
	9:55							-C- Job Complete

THANK YOU FOR CALLING
 HALLIBURTON
 ROBERT, STERLING, COV.