

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

Operator Contact Person: DAVID W. KAPPLE

Phone (.316.) 624-6253

Contractor: Name: DUKE DRILLING

License: 5929

Wellsite Geologist: \_\_\_\_\_

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SIOW  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 \_\_\_\_\_ PBTD

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

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

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

9-25-97 10-14-97 P&A 10-16-97

Spud Date Date Reached TD Completion Date

API NO. 15- 189-22230-0000

County STEVENS *plugged 10/15/97*

       -        -        NW - NE Sec. 27 Twp. 34 Rge. 39        E        W

660 Feet from N/X (circle one) Line of Section

1980 Feet from E/X (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  SE, NW or SW (circle one)

Lease Name PFEIFER "C" Well # 2

Field Name FETERITA

Producing Formation NONE

Elevation: Ground 3295.7 KB \_\_\_\_\_

Total Depth 6500 PBTD 0

Amount of Surface Pipe Set and Cemented at 1750 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from 11-21-97

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

Drilling Fluid Management Plan ADA DFA 4-20-98  
(Data must be collected from the Reserve PIT) *v.c.*

Chloride content 800 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. MARO HARVEY

L. MARO HARVEY

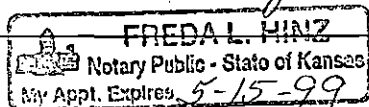
Title DRILLING TECHNICAL ASSISTANT Date 11-18-97

Subscribed and sworn to before me this 18th day of November

19 97.

Notary Public Freda L. Hinz

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)

SIDE TWO

ORIGINAL

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name PFEIFER "C" Well # 2

Sec. 27 Twp. 34 Rge. 39  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  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: DIL, CNL-LDT, ML, LS SONIC.

<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums		<input type="checkbox"/> Sample
Name	Top	Datum
B/STONE CORRAL	1778	
CHASE	2644	
COUNCIL GROVE	2960	
WABAUNSEE	3406	
TOPEKA	3671	
HEEBNER	4244	
TORONTO	4268	
LANSING	4382	
MARMATON	4984	
CHEROKEE	5326	
MORROW	5940	
CHESTER	6422	

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
CONDUCTOR	17-1/4"	13-3/8"	48.0	538	P+ MIDCON 2/ P+	180/120	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
SURFACE	12-1/4"	8-5/8"	23.0	1750	P+ MIDCON 2/ P+	230/150	3%CC, 195#CFR3, 1/4# SK FLC/2%CC, 1/4#SK FLC.

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate	(1) 1158-1268	PREM H	170	.6%CC.
Protect Casing	(2) 1750-1908	PREM/PREM	100/50	3%CC, 1/4#SK FLOCELE/ NEAT.
Plug Back TD	(3) 1750-1908	PREMIUM	100/100/100/100	3CC, 1/4#SK FLC/NEAT/3CC, 1/4#SK FLC/1CC, NEAT.
2+3 Plug Off Zone				
1 Whipstock				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used) Depth	

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. DAA Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls. <u>N-A</u>	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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 NONE-D&A



JOB SUMMARY 4239-1

TICKET # 231778 TICKET DATE 9-28-97

REGION North America NWA/COUNTRY BDA / STATE KS COUNTY Stevens
MBU ID / EMP # 59179 EMPLOYEE NAME Dennis Garcia PSL DEPARTMENT 5001
LOCATION Lienh Ks COMPANY Amadorado Petro Corp CUSTOMER REP / PHONE
TICKET AMOUNT WELL TYPE API / UWI #
WELL LOCATION SW of Feter, T DEPARTMENT JOB PURPOSE CODE 510 13 3/8 SUREALC
LEASE / WELL # C-2 Peer Fore SEC / TWP / RNG 27 34 S 39 W

Table with 4 columns: HES EMP NAME/EMP#/(EXPOSURE HOURS) | HRS. Includes names B. Tomlinson and L. Peterson with handwritten 'ORIGINAL' stamp.

Table with 8 columns: HES UNIT NUMBERS, R/T MILES. Includes handwritten unit numbers like 420041, 50833, 75237.

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

Table with 5 columns: DATE, CALLED OUT, ON LOCATION, JOB STARTED, JOB COMPLETED. Includes handwritten times like 9-27 1930.

TOOLS AND ACCESSORIES
TYPE AND SIZE QTY MAKE
Float Collar 1 Hovey
Float Shoe 1 Hovey
Guide Shoe
Centralizers 2
Bottom Plug
Top Plug
Head
Packer Basket
Other Hovey

WELL DATA
NEW/USED WEIGHT SIZE FROM TO MAX ALLOW
Casing 48 13 1/2 KB 538
Liner
Liner
Tbg/D.P.
Tbg/D.P.
Open Hole 6L 17 1/4 540 SHOTS/FT.
Perforations
Perforations
Perforations

MATERIALS
Treat Fluid Density Lb/Gal
Disp. Fluid Density Lb/Gal
Prop. Type Size Lb.
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

HOURS ON LOCATION, OPERATING HOURS, DESCRIPTION OF JOB
DATE HOURS DATE HOURS
TOTAL TOTAL
HYDRAULIC HORSEPOWER
AVERAGE RATES IN BPM
CEMENT LEFT IN PIPE Reason

CEMENT DATA
STAGE SACKS CEMENT BULK/SKS ADDITIVES YIELD LBS/GAL
120 1100 lb on 390 lb 1/2 # Floate 3.2 11.1
120 1100 lb on 260 lb 1/2 # Floate 1.34 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 77.5
Shut In: Instant 5 Min 15 Min Cement Slurr Gal 231.79
Total Volume Gal - BBI





**JOB SUMMARY** 4239-1

TICKET #	231853	TICKET DATE	10-1-97
REGION	North America	BDA / STATE	KS
NWA/COUNTRY	STEVEN'S U.S.M	COUNTY	STEVEN'S
MBU ID / EMP #	L10105 D-4360	PSL DEPARTMENT	5001 CMT
LOCATION	L13001 KS	CUSTOMER REP / PHONE	
TICKET AMOUNT		API / UWI #	
WELL LOCATION	S. FETTERA KS	JOB PURPOSE CODE	120 (Whipstock Plug)
LEASE / WELL #	PFEIFER C-2		

EMPLOYEE NAME	ROBERT ELWOOD
COMPANY	AMARCO
WELL TYPE	01
DEPARTMENT	5001 CMT
SEC / TWP / RNG	27 34S 39W

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
J. PARNES H3377			
D. CARPENTIER H2441			

ORIGINAL

HES UNIT NUMBERS	RT MILES	HES UNIT NUMBERS	RT MILES	HES UNIT NUMBERS	RT MILES	HES UNIT NUMBERS	RT MILES
38242 R.V.	72						
52938-7131	72						
	23						

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	10-1-97	10-1-97	10-1-97	10-1-97
TIME	10:00	13:00	18:40	18:00

**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					
Liner					
Liner					
Tbg/D.P.	U	16.6	4 1/2	K.B	1268
Tbg/D.P.					
Open Hole			12 1/4	6.6	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	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
<b>TOTAL</b>		<b>TOTAL</b>		

HYDRAULIC HORSEPOWER  
 ORDERED \_\_\_\_\_ Avail. \_\_\_\_\_ Used \_\_\_\_\_  
 TREATED \_\_\_\_\_ AVERAGE RATES IN BPM \_\_\_\_\_ Overall \_\_\_\_\_  
 FEET \_\_\_\_\_ CEMENT LEFT IN PIPE \_\_\_\_\_ Reason \_\_\_\_\_

**CEMENT DATA**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	170	Premix	B	2 1/2 C.C., 16' CER 3	.96	17.2

Circulating Breakdown	Displacement	Preflush:	Gal - BBI	Type
Average	Maximum	Load & Bkdn:	Gal - BBI	Pad: BBI - Gal
Shut In: Instant	Frac Gradient	Treatment	Gal - BBI	Disp: BBI - Gal
	5 Min	Cement Slurr	Gal - BBI	
	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  
 [Signature] AS PER O.I. STUCK



**JOB LOG** 4239-5

TICKET # 251853	TICKET DATE 11-1-97
BDA / STATE KS	COUNTY STEWARTS
PSL DEPARTMENT 5001 CONT.	
CUSTOMER REP / PHONE	
API / UWI #	
JOB PURPOSE CODE 170	

REGION North America	NWA/COUNTRY STEWARTS U.S.A.
MBUID / EMP # 120105 D-4360	EMPLOYEE NAME ROBERT ELWOOD
LOCATION LEASER KS	COMPANY HALLIBURTON
TICKET AMOUNT	WELL TYPE 01
WELL LOCATION C STEWARTS KS	DEPARTMENT 5001 CONT.
LEASE / WELL # 22 24 25 11	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
S. [unclear]							
D. [unclear]							

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1000							CALLED OUT READY WAD
	1300							ON LOC Rig W.A.O.
	1415							CIRCULATE W/Rig
	1440							HOOK TO HALLIBURTON
	1441	5	10			100		START H <sub>2</sub> O AHEAD
	1443	5	5			100		START GEL SPACER AHEAD
	1444	5	5			100		START H <sub>2</sub> O AHEAD
	1445	3.6	29.00			100		START Cont @ 17.2 #/gal
	1453	2.2	2.25			100		START H <sub>2</sub> O BEHIND
	1454	4.2	12.8			VAC		START MUD DISPLACEMENT
	1457					VAC		SHUT DOWN
	1458					0		Pull Drill Pipe
	1500					0		Job Complete

1997 NOV 21 11:01 AM  
 HALLIBURTON

THANK YOU FOR CALLING  
 HALLIBURTON  
 ROBERT, STERLING, DEAN'S



JOB SUMMARY 4239-1

TICKET # 234897 TICKET DATE 10 3 97

REGION North America NW/COUNTRY Mid Continent BDA/STATE KANSAS COUNTY EMPLOYEE NAME Tom Payer PSL DEPARTMENT 501 COMPANY APC CUSTOMER RER / PHONE J BARLOW WELL TYPE 01 DEPARTMENT CRT. JOB PURPOSE CODE 010 8 5/8" Surface

Table with 4 columns: HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS. Entries include Humphries #9692, Owens, Jeff Frost #9775.

ORIGINAL

Table with 8 columns: HES UNIT NUMBERS, R/T MILES. Entries include 470044, 3854 96900, 0737-6611, 0404-6610.

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

Table with 5 columns: DATE, CALLED OUT, ON LOCATION, JOB STARTED, JOB COMPLETED. Values: 10-3-97, 0425, 10-3-97, 0715, 10-3-97, 1040, 10-4-97, 0940.

TOOLS AND ACCESSORIES table with columns: TYPE AND SIZE, QTY, MAKE. Includes Float Collar INSERT, Guide Shoe TX, Centralizers 1/2", Bottom Plug, Top Plug SW, Head PC, Packer BASKET, Other Well.

WELL DATA table with columns: NEW/USED, WEIGHT, SIZE, FROM, TO, MAX ALLOW. Includes Casing N, 23, 8 5/8, KB, 4748, Liner, 1562.

MATERIALS table with columns: Treat Fluid, Disp. Fluid, Prop. Type, Acid Type, Surfactant, NE Agent, Fluid Loss, Gelling Agent, Fric. Red., Breaker, Blocking Agent, Perfpac Balls, Other.

HOURS ON LOCATION and OPERATING HOURS tables with columns: DATE, HOURS, DESCRIPTION OF JOB.

HYDRAULIC HORSEPOWER and AVERAGE RATES IN BPM tables with columns: ORDERED, TREATED, FEET, Avail., Disp., CEMENT LEFT IN PIPE, Reason Shoe Joint.

CEMENT DATA table with columns: STAGE, SACKS, CEMENT, BULK/SKS, ADDITIVES, YIELD, LBS/GAL. Includes 230 HMC 223, 3% CC, 1/4" sk Floccles, CFR 3, 150 H, 3% CC, 1/4" sk Floccle.

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



**JOB LOG** 4239-5

TICKET # <b>234897</b>	TICKET DATE <b>10/28/97</b>
BDA / STATE <b>KANSAS</b>	COUNTY
PSL DEPARTMENT <b>5001</b>	CUSTOMER REP / PHONE <b>J. Barton</b>
API / UWI #	JOB PURPOSE CODE <b>210</b>

REGION <b>North America</b>	NWA/COUNTRY <b>Mid Continent</b>
MBU ID / EMP # <b>110104 / 48170</b>	EMPLOYEE NAME <b>Tom Payne</b>
LOCATION <b>Liberal</b>	COMPANY <b>HPC</b>
TICKET AMOUNT	WELL TYPE <b>01</b>
WELL LOCATION <b>S.W. Felkita</b>	DEPARTMENT <b>PERMENT</b>
LEASE / WELL # <b>REFILER 0-7</b>	SEC / TWP / RNG <b>21-34s-37w</b>

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
<b>Humphris 119197</b>			
<b>SOWERS 52208</b>			
<b>FRIST 09915</b>			

**ORIGINAL**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
42004	0425		110					Called out - Requested Now
5555	0715	110						ON Loc - T.O.H.
50734	0611	46						
50404	0750	46						
	1040							RUN CSQ.
	1910							Hook up to circ. - then L.D. CSQ.
	0330							Hook up to circ. - then L.D. CSQ.
	0830							Hook up to circ. - then on Bottom
								Hook-up to CIRC
								Hook up to cmtr
	0853	0-6	118	✓		9/40		Pump head amt. @ 230 sks
	0913	6-5	28	✓		11/80		Pump fail amt. @ 150 sks
	0918	5-0				140		SHUT down - Drop plug
	0921	0-6	110	✓		9/30		Pump Displ. - websh up trk & lines
	0937	6-3		✓		10/50		Reduce RATE
	0940	3-0		✓		19/00		Plug Down
	0941			✓		8/0		RELEASE PRESS - Float held
								No CIR.
								Thank you!
								Tom & (BRY) & (R.B.W)

RECEIVED  
 KANSAS  
 OCT 29 1997  
 PERMENT





JOB SUMMARY 4239-1

TICKET # 231857 TICKET DATE 10-5-97

REGION North America NWA/COUNTRY U.S.A. BDA / STATE KANSAS COUNTY STEVENS
MBU ID / EMP # L70105 D-4360 EMPLOYEE NAME ROBERT ELWOOD PSL DEPARTMENT 5001 CMT
LOCATION LIBERAL KANSAS COMPANY AMIADAKO PET CORP CUSTOMER REP / PHONE STEVE REYNOLDS
TICKET AMOUNT WELL TYPE 02 API / UWI #
WELL LOCATION W 1702021-KE DEPARTMENT 5001 CMT JOB PURPOSE CODE 0800 Squeeze LC
LEASE / WELL # PEPPER C-2 SEC / TWP / RNG 27-34 S. - 39 W.

Table with 4 columns: HES EMP NAME/EMP#/(EXPOSURE HOURS) | HRS. Includes entries for S. RATINGS H 3275 and S. GRANT H 4630.

ORIGINAL

Table with 8 columns: HES UNIT NUMBERS, R/T MILES, HES UNIT NUMBERS, R/T MILES, HES UNIT NUMBERS, R/T MILES, HES UNIT NUMBERS, R/T MILES. Includes entries like 30242 RU 44 and 50038-7131 44.

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

TOOLS AND ACCESSORIES table with columns: TYPE AND SIZE, QTY, MAKE. Includes items like Float Collar, Guide Shoe, Centralizers, Bottom Plug, Top Plug, Head, Packer, Other.

MATERIALS table with columns: Treat Fluid, Density, Lb/Gal; Disp. Fluid, Density, Lb/Gal; Prop. Type, Size, Lb.; 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.

Table with 4 columns: DATE, CALLED OUT, ON LOCATION, JOB STARTED, JOB COMPLETED. Includes times like 04:30, 06:30, 09:00, 12:30.

WELL DATA table with columns: NEW/USED, WEIGHT, SIZE, FROM, TO, MAX ALLOW. Includes entries for Casing, Liner, Tbg/D.P., Open Hole, Perforations.

HOURS ON LOCATION and OPERATING HOURS tables with columns: DATE, HOURS. Includes a TOTAL row.

HYDRAULIC HORSEPOWER, AVERAGE RATES IN BPM, CEMENT LEFT IN PIPE tables with columns: ORDERED, TREATED, FEET, Avail., Used, Overall, Reason.

CEMENT DATA table with columns: STAGE, SACKS, CEMENT, BULK/SKS, ADDITIVES, YIELD, LBS/GAL. Includes entries for Premium cement and additives like 3 1/2 C.C., 1/2 #/sk Floccs.

Circulating Breakdown, Displacement, Frac Gradient, Preflush, Load & Bkdn, Treatment, Cement Slurr, Total Volume, Type, Pad: BBI - Gal, Disp: BBI - Gal. Includes values like 28.8.

Frac Ring #1, #2, #3, #4. THE INFORMATION STATED HEREIN IS CORRECT. CUSTOMER'S REPRESENTATIVE SIGNATURE Steve Reynolds



**JOB LOG** 4239-5

TICKET #	231757	TICKET DATE	10-5-97
REGION	North America	BDA / STATE	KANSAS
NWA/COUNTRY	USA	COUNTY	SENECA
MBU ID / EMP #		PSL DEPARTMENT	5001 CNT
EMPLOYEE NAME	Robert E. Clark	CUSTOMER REP / PHONE	913-741-3911
LOCATION	Seneca, Kansas	API / UWI #	
TICKET AMOUNT		DEPARTMENT	5001 CNT
WELL LOCATION		JOB PURPOSE CODE	0700
LEASE / WELL #		SEC / TWP / RNG	27N 74E - 39W

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	
	0430							CNTRD OUT ROAD AND
	0630							ON COL RIN WAITING
	0640							TRIPIN Hole @ 11.4 #/gal
	0906							HOOK TO HALLIBURTON
	0920							Close BOP
	922	2	5			300		LOAD Annulus BOP / LEAKS
	927							TIGHTEN BOP
	941	1.5	1/2			300		LOAD Annulus
	942							SHUT DOWN
	943	2	26.5			25	300	INJECTION Rate
	956	2	18.8					START LEAD CNT @ 11.4 #/gal
	1005		9.4					START TRAIL CNT @ 11.4 #/gal
	1012							SHUT DOWN
	1012							WASH PUMAS & LINES to Pit
	1015	1/2	11			10	200	Displace
	1033					VAC		SHUT DOWN
	1034					VAC		GET GRAVITY
	1045		16 1/2			VAC		SHUT DOWN TOTAL 17.5 B H <sub>2</sub> O OUT
	1100		1			VAC		Pump
	1104					VAC		SHUT DOWN TOTAL 18.5 B H <sub>2</sub> O OUT
	1117		1			VAC		Pump
	1124					VAC		SHUT DOWN TOTAL 19.5 B OUT
	1156					VAC		Pump
	1219		13 1/4			500		SHUT DOWN TOTAL 20 3/4 B OUT
	1263							RELEASE BACK
	1264							RELEASE PACKER
	1305	2	30					Reel OUT
	1227							SHUT DOWN
	1223		14			500		Press up Drill Pipe
	1223							Release Back SHUT DOWN
	1230					0		RELEASE BACK
	1230					0		Job Complete

96.5Ks CNT out into formation

THANK YOU FOR CALLING  
HALLIBURTON  
ROBERT E. CLARK



**JOB SUMMARY** 4239-1

REGION North America	NWA/COUNTRY Mid East	TICKET # 731923	TICKET DATE 10/6/97
MBU ID / EMP #	EMPLOYEE NAME Melvin Fox	BDA / STATE KS	COUNTY STEUBENS
LOCATION LJ-103	COMPANY Anadarko	PSL DEPARTMENT CENTRAL	CUSTOMER REP / PHONE # Steve Milewore
TICKET AMOUNT 17500	WELL TYPE 02	API / UWI #	JOB PURPOSE CODE OBS Spence L.C.
WELL LOCATION L. F. F. # C-2	DEPARTMENT CENTRAL	SEC / TWP / RNG 27/34/29W	

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 50493			
B. Fox 51830			
J. Owens 72208			

**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
42004E							
52823-75374							
50737-6611							

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	10/6/97	10/6/97	10/6/97	10/6/97
TIME	0650	0930	1440	1750

**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	23	8 5/8	0	2750	
Liner			0	2750	
Liner			1	2750	
Tbg/D.P.	16 1/2	4 1/2	0	1675	
Tbg/D.P.			1	1675	
Open Hole			1750	1908	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	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				SAFE OPEN NOTE
<b>TOTAL</b>		<b>TOTAL</b>		

**CEMENT DATA**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	100	PREM (H)	3% CC	1/2" 15K Packer	100	16.4
	100	PREM (H)	NEAT	1/2" 15K Packer	100	16.4
	50	PREM (H)	3% CC	1/2" 15K Packer	100	16.4
	100	PREM (H)	3% CC	1/2" 15K Packer w/ 10% sand	100	16.4
	100	PREM (H)	1% CC	NEAT	100	16.4

Circulating Breakdown \_\_\_\_\_ Displacement \_\_\_\_\_ Preflush: Gal - BBI \_\_\_\_\_ Type \_\_\_\_\_  
 Average \_\_\_\_\_ Maximum \_\_\_\_\_ Load & Bkdn: Gal - BBI \_\_\_\_\_ Pad: BBI - Gal \_\_\_\_\_  
 Shut In: Instant \_\_\_\_\_ 5 Min \_\_\_\_\_ 15 Min \_\_\_\_\_ Treatment Gal - BBI \_\_\_\_\_ Disp: BBI - Gal \_\_\_\_\_  
 Cement Slurr Gal - BBI \_\_\_\_\_ 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 \_\_\_\_\_



**JOB LOG** 4239-5

TICKET #	234933	TICKET DATE	10/6/97
REGION	North America	NW/COUNTRY	Mid Cont
MBU ID / EMP #	LT0103	BDA / STATE	Ks
LOCATION	Lincoln	PSL DEPARTMENT	Cement
TICKET AMOUNT		CUSTOMER REP / PHONE	Steve Ridsdorn
WELL LOCATION	S/ITERITA	API / UWI #	
LEASE / WELL #	PIFFER #1C-2	DEPARTMENT	Cement
		WELL TYPE	02
		SEC / TWP / RNG	27/34S/39W
		JOB PURPOSE CODE	085

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 F0413							
B. Tomlinson J1832							
S. Owens J2208							

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0600							Called out
	0930							on loc.
	1140		5			300		Load & Press. B.S.
	1148	2	30			120		Pump Get Injection Rate
	1203	1	38			30		Pump Cmt 16.4#
	1224							Shut Down WASH UP
	1229	1						DISPLACE
	1242		10					Watch UAC.
	1255		20					Shut Down 20 min
	1315		1					Watch UAC
	1318		21					Shut Down WAIT 30 min
	1348							Watch UAC
	1350							WAIT 15 min
	1408		22			100		Pump
	1411							WAIT 30 min
	1428		23					Pump
	1428		23			90		Shut Down
	1449		24					Pump
	1450		24					Shut Down
	1524		25			70		Pump
	1525		25			70		Shut Down
	1558							Pump
	1559		26					Shut Down
	1614							Pump Cmt Away
	1622							WAIT on MORE Cmt
	1813		5					Pump H2O for Injection Rate
	1820		10					Pump Cmt. w/ CAL SEAL 15.6#
	1825		9.5					Pump Cmt. w/ 3% CC 16.4#
	1835		18					Pump Cmt. w/ 1% CC NEAT 16.4#
	1850							WASH UP
	1853							DISPLACE
	1909		16					Shut Down WATCH UAC
	1918		17 1/2			30		Shut Down 5 min
	1924							Pump
	1926		18			30		Shut Down 10 min
	1937		18 1/2					Pump
	1938		18 1/2			330		Shut Down
	1941		35					REVERSE OUT
	1965					560		Press. & Hold
	2030					500		Holding PRESS. WACK UP
THANKS FOR CALLING HALLIBURTON M Fox B. Tomlinson & CREW								



# JOB SUMMARY 4239-1

TICKET # <b>234923</b>	TICKET DATE <b>10-16-97</b>
BDA / STATE <b>KS</b>	COUNTY <b>STEVENS</b>
PSL DEPARTMENT <b>Cement</b>	CUSTOMER REP / PHONE
API / UWI #	JOB PURPOSE CODE <b>115</b>
<b>PEA</b>	

REGION <b>North America</b>	NWA/COUNTRY <b>Mid Continent</b>
MBUID / EMP # <b>110101 G3601</b>	EMPLOYEE NAME <b>O. Malone</b>
LOCATION <b>Liberal</b>	COMPANY <b>Anadarko Petroleum</b>
TICKET AMOUNT	WELL TYPE <b>02</b>
WELL LOCATION <b>Land</b>	DEPARTMENT <b>Cement</b>
LEASE / WELL # <b>Preiser C-2</b>	SEC / TWP / RNG. <b>27 34S 39W</b>

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
<b>E. McDonald H4285</b>			
<b>D. Carpenter H2441</b>			

## 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
<b>420045</b>	<b>74</b>						
<b>52947-75496</b>	<b>74</b>						
<b>4115-75817</b>	<b>46</b>						

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

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

DATE	CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	<b>10-15-97</b>	<b>10-15-97</b>	<b>10-16-97</b>	<b>10-16-97</b>
TIME	<b>1650</b>	<b>2030</b>	<b>0010</b>	<b>0415</b>

### WELL DATA

NEW/USED	WEIGHT	SIZE U	FROM	TO	MAX ALLOW
Casing					
Liner					
Liner					
Tbg/D.P.	<b>U</b>	<b>16.6</b>	<b>4 1/2</b>	<b>1KB</b>	<b>5300</b>
Tbg/D.P.					
Open Hole					SHOTS/FT.
Perforations					
Perforations					
Perforations					

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				<b>See Job Log</b>
<b>TOTAL</b>		<b>TOTAL</b>		

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

### CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	<b>228</b>	<b>40/60 K2</b>	<b>P</b>	<b>6% Gel</b>	<b>154</b>	<b>15.0</b>

Circulating Breakdown	Displacement Maximum	Preflush: Gal - BBI	Type
Average	Frac Gradient	Load & Bkdn: Gal - BBI	Pad: BBI - Gal
Shut In: Instant	5 Min 15 Min	Treatment Gal - BBI	Disp: BBI - Gal
		Cement Slurr Gal - <b>67.5</b>	
		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	



**JOB LOG** 4239-5

TICKET #	234923	TICKET DATE	7-10-16-97
BDA / STATE	KS	COUNTY	SENECA
PSL DEPARTMENT	Cement	CUSTOMER REP / PHONE	
API / UWI #		JOB PURPOSE CODE	115

REGION	North America	NWA/COUNTRY	M. of Continent
MBU ID / EMP #	170101 @ 3601	EMPLOYEE NAME	D. McKane
LOCATION	Liberal	COMPANY	Androck Petroleum
TICKET AMOUNT		WELL TYPE	02
WELL LOCATION	Liberal	DEPARTMENT	Cement
LEASE / WELL #	02-345-391W	SEC / TWP / RNG	27 34S 391W

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
T. M. D. 119288			
D. McKane 42441			

**ORIGINAL**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	2100							Job Ready
	1640							Called for Job
	2030							on location rig, running in D.P. Set was pump to work
	2130							Rig laying down D.P. to 3300' - Circulated hole
	2358							through circulation hook up to Halliburton
	2010	6	10	✓		150		Job Procedure for Plug @ 3300'
	2017	6	27.5	✓		100/150		Start Fresh water Ahead
	2017	6	3.5	✓		100/150		Start Cement @ 13.0 #/gal U
	2018	6	36	✓		150/50		Start Fresh water Behind
	2025					0		Start mud Displacement
	2027							Knock Loss / Pull Down
								lay Down D.P. to 1780'
	2120		10	✓				2nd Plug @ 1780'
	2130	6	10	✓		150		land hole with mud
	2132	6	13.5	✓		150		Start Fresh water Ahead
	2134	6	13.5	✓		100/50		Start Cement @ 13.0 #/gal
	2135	6	18	✓		50		Start Fresh water Behind
	2138							Start Mud Displacement
	2139							Knock Loss / Pull Down
								lay Down D.P. to 580'
	2233	6	40	✓		100/100		3rd Plug @ 580'
	2240	6	11	✓		100/100		Circulate hole with water
	2242	6	5.5	✓		50		Start Cement @ 13.0 #/gal
	2244							Start Fresh water Displacement
	2245							Knock Loss / Pull Down
								lay Down D.P. to 40'
	2400	5	3.0	✓		0		40' surface Plug
	2406	5	2.7	✓		0		Circulate hole with water
								Start Cement @ 13.0 #/gal
								Start Down
	2415	5	6.8	✓		0		Plug R.H. @ MH
Thank You for Calling Halliburton								
Danny A. Carr								