

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: NATIONAL COOPERATIVE REFINING CORPORATION

Operator Contact Person: DAVID W. KAPPLE

Phone (316) 624-6253

Contractor: Name: BIG "A" DRILLING

License: 31572

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)

PENDING CD# 195,034-C (C-28,283)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBSD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

6-25-97 7-5-97 8-9-97

Spud Date Date Reached TD Completion Date

API NO. 15- 081-21132 - 0000

County HASKELL

N/2 - SW - NW - SW Sec. 16 Twp. 29 Rge. 34 X W

1900 Feet from X(S) (circle one) Line of Section

330 Feet from X(W) (circle one) Line of Section

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

Lease Name OWENS "A" Well # 7

Field Name EUBANK

Producing Formation MORROW

Elevation: Ground 2992.3 KB _____

Total Depth 5745 PBSD 5433

Amount of Surface Pipe Set and Cemented at 1820 Feet

Multiple Stage Cementing Collar Used? X Yes _____ No

If yes, show depth set 2996 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan AH-1, 4-7-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 1700 ppm Fluid volume 700 bbls

Dewatering method used DRY, BACKFILL & RESTORE LOCATION

Location of fluid disposal if hauled offsite: _____

Operator Name _____ 10-22-97

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.

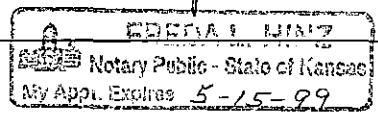
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature L. Marc Harvey
L. MARC HARVEY
Title DRILLING TECHNICAL ASSISTANT Date 10-20-97

Subscribed and sworn to before me this 20th day of October
19 97.

Notary Public Freda L. Flinn

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)

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name OWENS "A" Well # 7

Sec. 16 Twp. 29 Rge. 34 East County HASKELL
 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.

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
B/STONE CORRAL	1826	
CHASE	2518	
COUNCIL GROVE	2844	
WABAUNSEE	3330	
HEEBNER	3988	
LANSING A	4182	
KANSAS CITY A	4520	
MARMATON A	4686	
CHEROKEE	4873	
MORROW	5236	
CHESTER	5378	
ST. LOUIS	5546	

CASING RECORD

New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12-1/4"	8-5/8"	23.0	1820	P+ MIDCON 2/ P+	330/100	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8"	5-1/2"	15.5	5601	P+ MIDCON 2/ VERSASET	70/115	2%CC, 1/4#SK FLC/ .6% HALAD 322, 5% KCl, .9% VERSASET, 1/4#SK FLC.
			F. O. TOOL @	2996	P+ MIDCON 2	60	3%CC, 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	
	2	5550-5560, CIBP @ 5540.		ACID: 1000 GAL 15% FeHCl.
1	5456-5478, CIBP @ 5440.		ACID: 1000 GAL 7 1/2% FeHCl.	5456-5478
2	5380-5396, 5334-5368, 5290-5300.		ACID: 4000 GAL 7 1/2% FeHCl & 7500 GAL 15% FeHCl.	5290-5396 (OA)

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	5405		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. 8-14-97 Producing Method: Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas TSTM	Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	10			30		

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: 5290-5396 (OA)

JOB SUMMARY 4239-1

TICKET # 184348 TICKET DATE June 26, 97

REGION North America	NWA/COUNTRY Midcont.	BDA / STATE KANSAS	COUNTY HASKELL
MBU ID / EMP # LE 104 48120	EMPLOYEE NAME Tom RYLER	PSL DEPARTMENT Cement	
LOCATION Liberal Ks.	COMPANY Amador	CUSTOMER REP / PHONE JR. Stuck	
TICKET AMOUNT	WELL TYPE LAAS OZ	API / UWI #	
WELL LOCATION N.W.	DEPARTMENT Cement	JOB PURPOSE CODE 010	
LEASE / WELL # Dwens A-7	SEC / TWP / RNG 16-29s-34W		

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
E. Chance H3450							
W. Humphreys H9492							
D. Mezonis J1292							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420044	0/0 88						
53554/26300	0/1 88						
25505/50502	0/1						
4037/4612	0/1						

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
	6/26/97	6/26/97	6/26/97	6-26-97
	5:30	8:00	1440	1603

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Shot Collar Fns.	1	H
Float Shoe		
Guide Shoe 8 5/8	1	X
Centralizers 8 5/8	4	L
Bottom Plug		
Top Plug 8 5/8 SW		C
Head		
Packer		
Other BRACKET 8 5/8	1	O

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	New	23#	8 5/8	KG	1842	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						
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	
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED _____ Avail. _____ Used _____

TREATED _____ AVERAGE RATES IN BPM _____ Overall _____

FEET **41** CEMENT LEFT IN PIPE **SHOT JOINT**
Reason **Shot Joint**

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	350	Pt midcon	B	3% CC, 1/4# Placeta	3.22	11.1
2	100	Prem +	B	2% CC " " (Dincide)	1.72	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 115
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal BBI LC 200	TC 23
		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: *J. Stuck*

REGION North America	NWA/COUNTRY	BDA / STATE	COUNTY
MBU ID / EMP #	EMPLOYEE NAME	PSL DEPARTMENT	
LOCATION	COMPANY	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	
	5:30							Call out
	8:30							ON LOC. (start setting up)
	"							Rig pullin Drill Pipe
								9:50 am Rig stuck in Hole w/ collar
	12:30							Run Csg
	14:10							Hook-up to circ.
	14:30							circ made
	14:40							Hook-up to cmt.
	14:50	5 1/2	200	✓		↑ 0/100		Pump lead
	15:25	5 1/2	23	✓		↓ 100/100		Pump tail
	15:30	5-0				↓ 70/0		Shutdown - Drop plug
	15:35	0-4	115	✓		↑ 0/250		Pump Disl - wash up truck
	15:59	4-2		✓		↓ 350/250		Reduce Rate
	16:03	2-0				↑ 360/250		Plug Down
						↓ 300/0		Pressure Pass - float hold
								Control to Surface ✓
								Approx: 8 bbls or 15 sks
								Thank you!
								Tom & Eddie

REGION North America	NW/COUNTRY MID CONTINENT USA	BDA / STATE OKC KS	COUNTY HASKELL
MBU ID / EMP # U 0102 67099	EMPLOYEE NAME JASON NICHOLAS	PSL DEPARTMENT CEMENT 5001	
LOCATION LIBERAL KS	COMPANY ANADARKO PETROLEUM	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE 02	API / UWI #	
WELL LOCATION NW SATANTA	DEPARTMENT CEMENT 5001	JOB PURPOSE CODE 205	
LEASE / WELL # OWENS A-7	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
C LAV D9259			
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
53552-78202	90						
78135	90						
470041	90						

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	7-18-97	7-18-97	7-18-97	7-18-97
TIME	0600	0900	0924	1400

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	USED	15.5	5.5	KB	5602	
Liner						
Liner						
Tbg/D.P.	USED	4.7	2 3/4	KB	5587.92	
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	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				RECEMENT
TOTAL		TOTAL		

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
	CO	Mudcap P+	BULK	3% CACIZ 14# FLOCELE	3.22	11.1#

Circulating _____	Displacement _____	Preflush: Gal - BBI _____	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI 7.4	Disp: BBI - Gal 11.75
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI 34.97	
		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 _____

TICKET #	235958	TICKET DATE	7-18-97
REGION	North America	BDA / STATE	OKS KS
MBU ID / EMP #	110102 G2098	PSL DEPARTMENT	CEMENT 5001
LOCATION	LIBERAL KS	CUSTOMER REP / PHONE	
TICKET AMOUNT		API / UWI #	
WELL LOCATION	NW SATANTA	DEPARTMENT	CEMENT 5001
LEASE / WELL #	OWENS A-7	JOB PURPOSE CODE	205

NW/COM/TRY	MID CONTINENT USA
EMPLOYEE NAME	JASON NICHOLAS
COMPANY	ANADARKO PETROLEUM
WELL TYPE	OZ
DEPARTMENT	CEMENT 5001
SEC / TWP / RNG	

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	C LAY D7259				
ORIGINAL					

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0600							CALLED OUT ON LOCATION
	0600							Rig up - SAFETY MEETING
	0620							PRESSURE UP ON TUBING MAKE SURE TOOL IS CLOSED.
	0724	1	1	✓		50/100		SHUT DOWN - TIGHTEN BOP
	0525							PRESSURE UP
	0531	1	1	✓		50/100		SHUT DOWN BLEED PRESSURE BACK TO 300PSI
	0631							OPEN TOOL
	0735	3.5	20	✓		100/100		Pump 20 BBL OF WATER TO GET CIRCULATION - NO CIRCULATION
	0741							SHUT DOWN - MIX CEMENT
	0745	3.44	34.4	✓		100/100		Pump CEMENT GOSKS PREMIUM PLUS MIDCON 3.22CBFT/ 11.1 g/gal
	0955	1.6	11.75	✓		60/100		Pump DISPLACEMENT - H2O
	1002							SHUT DOWN - CLOSE TOOL
	1003	.5	.5	✓		1000		PRESSURE UP MAKE SURE TOOL IS CLOSED. - RELEASE PRESSURE
	1004							SHUT DOWN - ADD 2 JOINTS
	1005							REVERSE
	1012	0.2	20	✓		60/20		REVERSE OUT
	1022							SHUT DOWN
	1310	1	6	✓		50/100		Pump ACID 72% HCL
	1316	1	17	✓		200/20		Pump H2O
	1332							SHUT DOWN
	1335	1	25	✓		50/55		REVERSE OUT
	1400							SHUT DOWN

THANK YOU FOR CALLING HALLIBURTON
NICHOLAS, LAY



JOB SUMMARY 4239-1

TICKET # 184218	TICKET DATE 7-7-97
BDA / STATE KANSAS	COUNTY HASWELL
PSL DEPARTMENT 5001 CMT	CUSTOMER REP / PHONE JR STUCK
API / UWI #	JOB PURPOSE CODE 035

REGION North America	NWA/COUNTRY U.S.A.
MBU ID / EMP # LEOLOS D-4360	EMPLOYEE NAME ROBERT EDWARD
LOCATION LIBERAL KS	COMPANY AMADAKO B. PETRO
TICKET AMOUNT	WELL TYPE 01
WELL LOCATION N. SARANTA 15	DEPARTMENT 5001 CMT
LEASE / WELL # OWENS A-7	SEC / TWP / RNG 16-29S-34W

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. ELLWOOD D-4360			
S. RAYNS H 3377			

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
38242 RU							
58947-7131							
50009 10610							

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
	7-7-97	7-7-97	7-7-97	7-7-97
TIME	14:00	17:00	20:07	21:40

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY	MAKE
Float Collar Excess w/EM	1	HOUSCO
Float Shoe		
Guide Shoe Reg	1	
Centralizers S-4	21	
Bottom Plug		
Top Plug S wiper	1	
Head OC P.C	1	
Packer Cont BASKET	1	
Other Foot Collar	1	RAKER

WELL DATA						
	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	15.5	5 1/2	K.B.	5601	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole				7 7/8	6.6	SHOTS/FT.
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.	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		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				LONGSTRAW
TOTAL		TOTAL		

ORDERED _____ HYDRAULIC HORSEPOWER _____
 TREATED _____ AVERAGE RATES IN BPM _____
 FEET **5.5** CEMENT LEFT IN PIPE _____ Overall _____
 Reason **5402 TOTAL**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	70	Mecomp+	B	2% C.C., 1/4 #/sk Flocele	2	12.8
	115	Premeur	B	9% Icasaser, 5% KCL, 10/10% HALCO 322, 1/4 #/sk Flocele	1.41	14.5

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: BB - Gal 133.2
		Cement Slurr Gal BB 23+29	
		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]**



HALLIBURTON

JOB LOG 4239-5

TICKET # 124219	TICKET DATE 7-7-97
BDA / STATE KANSAS	COUNTY Haskell
PSL DEPARTMENT SPEL CONT	CUSTOMER REP / PHONE 10 STICK
API/UWI #	JOB PURPOSE CODE 035

REGION North America	NWA/COUNTRY USA
MBU ID / EMP # 12320	EMPLOYEE NAME P. [unclear]
LOCATION 12320	COMPANY [unclear]
TICKET AMOUNT	WELL TYPE [unclear]
WELL LOCATION [unclear]	DEPARTMENT SPEL CONT
LEASE/WELL # [unclear]	SEC / TWP / RNG [unclear]

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
[unclear]	1.92	[unclear]		[unclear]		[unclear]	
[unclear]	1.22						

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1400							Called out Ready Now.
	1700							on loc. Rm. N-RETRAP
	1700							START Csg
	1920							Csg on 1 Bottom
	1935							Csg w/ R.P.
	2007		8					Plug Rate Mouse
	2030							Hook to HALLIBURTON
	2031	6.5	26			250		START PRE-FLUSH @ 2-40-10 SPEEDMUSH @ 120
	2039	6.5	25			300		START LEAD Cmt @ 12.8 #/gal
	2043	4	29			350		START TAIL Cmt @ 14.5 #/gal
	2052					LAC		SHUT DOWN
	2053					0		WASH TO PIT Drop P/14
	2057	3.5	123			500		START DISO.
	2135	2	10			500		SLOW RATE
	2140					800		PLUG DOWN
	2141					1500		RELEASE RACK FLAT HOLDING

THANK YOU FOR
CALLING
HALLIBURTON
ROBERT E. CLEW