

ORIGINAL

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: ANADARKO ENERGY SERVICES

Operator Contact Person: G. B. SMITH

Phone (316) 624-6253

Contractor: Name: NA

License: NA

Wellsite Geologist: NA

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: ANADARKO PETROLEUM CORPORATION

Well Name: LEMON TRUST R-1

Comp. Date 2-18-97 Old Total Depth 6700'

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back 6560 PBSD  
 Commingled Docket No. CO 6979  
 Dual Completion Docket No. \_\_\_\_\_  
 Other (SWD or Inj?) Docket No. \_\_\_\_\_

6-10-97 -- 6-19-97  
 Date of START Date Reached TD Completion Date of  
OF WORKOVER WORKOVER

API NO. 15- 175-21584-0001

County SEWARD

- C - SW - NW Sec. 32 Twp. 34S Rge. 32 X E

1980 Feet from S/N (circle one) Line of Section

660 Feet from E/W (circle one) Line of Section

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

Lease Name LEMON TRUST "B" Well # 1

Field Name CONDIT

Producing Formation MORROW, CHESTER

Elevation: Ground 2753 KB \_\_\_\_\_

Total Depth 6700 PBSD 6560

Amount of Surface Pipe Set and Cemented at 1588 Feet

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

Drilling Fluid Management Plan REWORK JH 2-16-98  
(Data must be collected from the Reserve Pit)  
NOT APPLICABLE

Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls

Dewatering method used \_\_\_\_\_

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 Shawn D. Young  
Title DIVISION PRODUCTION ENGINEER Date 1/27/98  
Subscribed and sworn to before me this 27th day of January  
19 98.  
Notary Public Shirley J. Childers  
Date Commission Expires 11/14/98

NOTARY PUBLIC - State of Kansas  
SHIRLEY J. CHILDERS  
My Appt. Exp. 11/14/98

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received (N)  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)  
1-28-98

SIDE: TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name LEMON TRUST "B" Well # 1

Sec. 32 Twp. 34S Rge. 34  East County SEWARD  
 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:

Log Formation (Top), Depth and Datums  Sample  
 Name Top Datum  
 SEE ATTACHED ORIGINAL ACO-1

** Original Completion		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	1588	P+ MIDCON2/ P+	375/ 100	3%CC, 1/4#SK FLC/ 25CC, 1/4#SK, FLC
** PRODUCTION	7-7/8"	5-1/2"	15.5	6560	VERSASET	210	.8% HALAD 322, 5%KCL .9% BERASET, 1/4#SK, FLC

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: ___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			

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	
		CIBP: @ 6560		FRAC'D: W/29778 GAL 25# DELTA FRAC X-LINKED GEL + 92300# 20/40 SMD
3 + 4	6002'-6011' + 6137'-6145'			

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

Date of First, Resumed Production, SMD or Inj. RESUMED: 6-18-97	Producing Method			
	<input checked="" type="checkbox"/> Flowing	<input type="checkbox"/> Pumping	<input type="checkbox"/> Gas Lift	<input type="checkbox"/> Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	2	1615	15	807,500.00	

Disposition of Gas:

Vented  Sold  Used on Lease  
 (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole  Perf.  Dually Comp.  
 Other (Specify)

Production Interval

Coningled 6006-6011  
6137-6143

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name LEMON TRUST "B" Well # 1

Sec. 32 Twp. 34S Rge. 32  East  West County SEWARD

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No List All E.Logs Run: DIL, ML, CNL-LDT, CBL-CCL-GR.	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <th style="width:60%;">Name</th> <th style="width:20%;">Top</th> <th style="width:20%;">Datum</th> </tr> <tr> <td>CHASE</td> <td>2606</td> <td></td> </tr> <tr> <td>COUNCIL GROVE</td> <td>2947</td> <td></td> </tr> <tr> <td>HEEBNER</td> <td>4311</td> <td></td> </tr> <tr> <td>TORONTO</td> <td>4356</td> <td></td> </tr> <tr> <td>LANSING</td> <td>4499</td> <td></td> </tr> <tr> <td>MARMATON</td> <td>5188</td> <td></td> </tr> <tr> <td>CHEROKEE</td> <td>5451</td> <td></td> </tr> <tr> <td>MORROW</td> <td>5816</td> <td></td> </tr> <tr> <td>CHESTER</td> <td>6034</td> <td></td> </tr> <tr> <td>STE. GENEVIEVE</td> <td>6420</td> <td></td> </tr> <tr> <td>ST. LOUIS</td> <td>6579</td> <td></td> </tr> </table>	Name	Top	Datum	CHASE	2606		COUNCIL GROVE	2947		HEEBNER	4311		TORONTO	4356		LANSING	4499		MARMATON	5188		CHEROKEE	5451		MORROW	5816		CHESTER	6034		STE. GENEVIEVE	6420		ST. LOUIS	6579	
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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	1588	P+ MIDCON 2/ P+	375/100	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8"	5-1/2"	15.5	6560	VERSASET	210	.6% HALAD 322, 5%KCL .9% VERASET, 1/4#SK FLC.

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose: ____ Perforate ____ Protect Casing ____ Plug Back TD ____ Plug Off Zone	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			

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	6137-6143
4	6137-6145 - CIBP SET @ 6106	FRAC: 20,000 GAL FOAMED GLD 2% KCL WTR & 49,900# 16/30 SD.	6137-6145
3	6002-11	NATURAL.	

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. 2-24-97	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
---	---

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		2180	0		

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: 6002-11

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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 SERVICE

Operator Contact Person: DAVID W. KAPPLE

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. \_\_\_\_\_

1-10-97 1-21-97 2-18-97  
Spud Date Date Reached TD Completion Date

API NO. 15- 175-21,584

County SEWARD

C - SW - NW Sec. 32 Twp. 34S Rge. 32 X E

1980 Feet from N/S (circle one) Line of Section

660 Feet from E/W (circle one) Line of Section

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

Lease Name LEMON TRUST "B" Well # 1

Field Name CONDIT

Producing Formation MORROW

Elevation: Ground 2753.0 KB \_\_\_\_\_

Total Depth 6700 PBDT 6106

Amount of Surface Pipe Set and Cemented at 1588 Feet

Multiple Stage Cementing Collar Used?  Yes  No

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

If Alternate II completion, cement circulated from  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan Alt. 1  
(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. \_\_\_\_\_

RECEIVED  
KANSAS CORPORATION  
MAY - 8 1998  
U.C.

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.

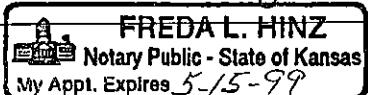
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature L. Marc Harvey  
Title DRILLING TECHNICAL ASSISTANT Date 5-16-97

Subscribed and sworn to before me this 6th day of May 1997.

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)

ANADARKO PETROLEUM CORPORATION  
LEMON TRUST B-1  
SECTION 32-T34S-R32W  
SEWARD COUNTY, KANSAS

ORIGINAL

15-175-21584

COMMENCED: 01-10-97  
COMPLETED: 01-22-97

SURFACE CASING: 1588' OF 8 5/8" CMTD  
W/375 SKS PREMIUM PLUS MIDCON + 3% CC  
+ 1/4 #/SK FLOCELE. TAILED IN W/100 SKS  
PREMIUM PLUS + 2% CC + 1/4 #/SK FLOCELE.

FORMATION	DEPTH
SURFACE HOLE	0 - 1590
RED BED & SHALE	1590 - 2655
SHALE & LIMESTONE	2655 - 6700 RTD

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

CHEYENNE DRILLING, INC.

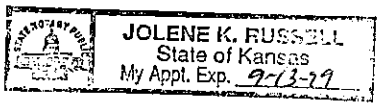
*Wray Valentine*

WRAY VALENTINE

RECEIVED  
KANSAS CORP COMM  
1997 MAY -8 A 11:18

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 25TH DAY OF JANUARY, 1997.

JOLENE K. RUSSELL  
State of Kansas  
My Appt. Exp. 9-13-29

JOLENE K. RUSSELL

*Jolene K. Russell*

NOTARY PUBLIC

# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

*MidCont*  
*Liberals*

BILLED ON TICKET NO. 185112

## WELL DATA

SEC. 32 TWP. 34<sup>S</sup> RNG. 32<sup>W</sup> COUNTY Sevier STATE Ks

WELL NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
 CEMENT THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
 INITIAL PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
 PRESENT PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
 COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_  
 PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_  
 BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
 MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		2.3	8 5/8	K.R.	1603	
LINER						
TUBING						
OPEN HOLE			12 1/4	GL	1603	SHOTS/FT
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 1-10-97	DATE 1-11	DATE 1-11	DATE 1-11
TIME 2:40	TIME 02:30	TIME 09:00	TIME 10:30

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
TYPE AND SIZE <u>8 5/8</u>		
FLOAT VALVE <u>Jensen Float</u>	<u>1</u>	<u>23# Harry</u>
FLOAT SHOE <u>FillUp</u>	<u>1</u>	
GUIDE SHOE <u>Reg</u>		
CENTRALIZERS <u>4</u>		
BOTTOM PLUG <u>1</u>		
TOP PLUG <u>1</u>		
HEAD <u>1</u>		
PACKER <u>Basket</u>	<u>1</u>	
OTHER <u>1 LB</u>		

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>DAVID 59179</u>	<u>420041</u>	<u>Liberals Ks</u>
<u>STATE E0568</u>	<u>52938 / 75051</u>	<u>"</u>
<u>S Grant H4639</u>	<u>50404 / 6618</u>	<u>Horton Ks</u>
<u>D. WILKINSON</u>	<u>51984 / 77031</u>	<u>"</u>

### MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. °API  
 DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. °API  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN  
 NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN  
 FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_  
 PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

DEPARTMENT CONCRETE  
 DESCRIPTION OF JOB 8 5/8  
 JOB DONE THRU. TUBING  CASING  ANNULUS  TEST ANN   
 CUSTOMER REPRESENTATIVE [Signature]  
 HALLIBURTON OPERATOR [Signature]  
 COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK	MIXED LBS./GAL
	<u>375</u>	<u>Prem Plus</u>	<u>MidCont</u>		<u>3% CC 1/4# Flocc</u>	<u>3.22</u>	<u>11.1</u>
	<u>100</u>	<u>Prem Plus</u>			<u>2% CC 1/4# Flocc</u>	<u>1.32</u>	<u>14.8</u>

### PRESSURES IN PSI

### SUMMARY

### VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH: BBL -GAL \_\_\_\_\_ TYPE \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL -GAL \_\_\_\_\_ PAD BBL -GAL \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL -GAL \_\_\_\_\_ DISPL BBL -GAL 99  
 SHUT-IN INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL -GAL 2385'  
 HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL -GAL \_\_\_\_\_  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS \_\_\_\_\_  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET 45 REASON Shoe short

CUSTOMER Liberals  
 LEASE Lemon Trust  
 WELL NO. 18-1  
 JOB TYPE 8 5/8 Surface  
 DATE 1-11-97

Petro **B 1** WELL NO. **Lemon Trust** LEASE **8 5/8 SURFACE** JOB TYPE **185112** TICKET NO.

RATE (BPM) VOLUME (BBL) (GAL) PUMPS T - C PRESSURE (PSI) TUBING CASING DESCRIPTION OF OPERATION AND MATERIALS

RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T - C	PRESSURE (PSI) TUBING CASING	DESCRIPTION OF OPERATION AND MATERIALS
12400				Time Collected
NOW 0400				Time Ready
0230				Time on Job
				<b>ORIGINAL</b>
0				Start Pumping Casing
0800				Hookup + Circ Casing Wash Joint Down
0900				Casing in Hole
0900				Hookup to Circulate Casing
0910				Circulate Casing w/rag Pump
0912				Circulate Mud to Surface
0925				Hookup to Pump Truck
0930	6		280	Start Mixing Cement
1004	215.95		200	Start Tail Cement
1008	23.56		200	Finish Mixing Cement
1009	238.55		0	Start Pump
				Drop Plug
1010	6		75	Start Displacement
	4.2 @ 99.24			Wash Pump's
1030			350 / 800	Plug Down
				Float Valve
				43 sec
				That's Fine Calling
				Halliburton
				Energy
				Dennis Capra
				1990

RECEIVED  
 1997 MAY - 13  
 11:18  
 ANALYSIS DEPT  
 P. DOMM



# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATIONMID CONTINENT  
LIBERAL, KSBILLED ON TICKET NO. 185305

## WELL DATA

FIELD \_\_\_\_\_ SEC 32 TWP 34.5 RNG 34U COUNTY SEWARD STATE KS

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_

FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD

PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD

COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_

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

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

MISC. DATA \_\_\_\_\_ TOTAL DEPTH 6700

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>15.5</u>	<u>5 1/2</u>	<u>KB</u>	<u>6575</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

TOOLS AND ACCESSORIES			
TYPE AND SIZE	QTY.	MAKE	
FLOAT COLLAR <u>INSERT</u>	<u>5/2</u>	<u>1</u>	<u>H</u>
FLOAT SHOE			
GUIDE SHOE <u>REG</u>	<u>5/2</u>	<u>1</u>	<u>O</u>
CENTRALIZERS <u>S-4</u>	<u>5/2</u>	<u>17</u>	
BOTTOM PLUG			<u>W</u>
TOP PLUG <u>S-WIPER</u>	<u>5/2</u>	<u>1</u>	
HEAD <u>P/K</u>	<u>5/2</u>	<u>1</u>	<u>C</u>
PACKER			
OTHER			<u>O</u>

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
<u>1-22-97</u>	<u>1-22-97</u>	<u>1-22-97</u>	<u>1-22-97</u>
DATE	DATE	DATE	DATE
TIME <u>1000</u>	TIME <u>1215</u>	TIME	TIME <u>1845</u>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. WOODROW</u>	<u>62573</u>	<u>420044</u> <u>PLC</u> <u>LIBERAL</u> <u>KS</u>
<u>D. McLANE</u>	<u>63601</u>	<u>7600</u> <u>TC-9 ADC</u> <u>"</u> <u>"</u>
<u>D. GORPINE</u>	<u>H2441</u>	<u>HICOTON</u> <u>KS</u>

### MATERIALS

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

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

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

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

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN

NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN

FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_

PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT CEMENT

DESCRIPTION OF JOB CEMENT SH. PRODUCTION GAS

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN

CUSTOMER REPRESENTATIVE X Joe Shreeves

HALLIBURTON OPERATOR J Woodrow

COPIES REQUESTED \_\_\_\_\_

RECEIVED  
KANSAS CORP  
1997 MAY 18 AM 11:14

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SA	MIXED LBS./GAL
	<u>210</u>	<u>PREMIUM</u>	<u>SOUTHWEST</u>	<u>B</u>	<u>.98 VERSASET, 5% PCL, -18 INJ-322</u> <u>1/4" FLOCEL</u>	<u>1.44</u>	<u>14.5</u>
	<u>25</u>	<u>PREMIUM</u>			<u>(PLUG R-11 + M-14)</u>	<u>1.18</u>	<u>15.6</u>

## PRESSURES IN PSI

## SUMMARY

## VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRES LUSH (BBL) GAL. 26 TYPE SLUR PLUSH

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

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL (BBL) GAL. 155.4

SHUT-IN. INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY (BBL) GAL. 53.8

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

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET 44 REASON SHOE JOINT

REMARKS RUN 8 ABLS FRESH WATER SPACERS  
AHEAD - BEHIND FLUSH

CUSTOMER ANADARKO Petroleum

LEASE LEMMA TRUST

WELL NO. B-1

JOB TYPE S/L LONG STRING

DATE 1-22-97



**JOB LOG** HAL-2013-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
ANADARKO PETROLEUM		B-1		LEMGN TRUST		5 1/2 LONG STRING		185305	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	1200								JOB READY
	1000								ORIGINAL
	1215								called out for job
	{ }								pump truck + buck gmt on location
									Rig has drill pipe LAYED DOWN
									WAITING ON CASING TO BE DELIVERED ON LOCATION
	1400								START RUNNING 5/8 CSS + FLOAT EQUIP
	1650								CASING ON BOTTOM 6575' - Hook up 5/8 PIC + CIRCULATING IRON.
									START CIRCULATING WITH RIG PUMP
	1700								Held SAFETY MEETING
									through circulating " Hook up Pump Truck
									Job Procedure
	1737	6.0	8				0/250		Pump 8 bbl Fresh water spacer
	1739	6.0	10				250/100		Pump 10 bbl Super Flush
	1743	6.0	8				250/100		Pump 8 bbl Fresh Water spacer
									Shut Down Plug Rat & Mouse Hole
	1800	3.0	5				0		25 SKS
	1803								Hook up to 5/8 Casing
	1805	6.5	54				0/380		Start mixing Cement
	1814						380/189		through mixing Cement Shut Down
	1815								Wash out Pumps & Lines & Release Plug
	1817	7.0					30/130		Start Displacement
	1837	7.0					120/413		100 bbl out getting Cement list PSI
	1845						683/1500		max list Before landing Plug
	1845						1500		Plug Down
									Release Float & Held
									had good mud circulating through out Job
									Thank You
									Woody & Danny

RECEIVED  
 MAY -8  
 11:18  
 MSAS CO. COMM