

FORM MUST BE TYPED

SIDE ONE

ORIGINAL

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

TEXACO TRADING & TRANSPORTATION, INC. - OIL

Purchaser: ANADARKO TRADING COMPANY - GAS

Operator Contact Person: J. L. ASHTON

Phone (316) 624-6253

Contractor: Name: GABBERT-JONES

License: 5842

Wellsite Geologist: N/A

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 PBSD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

2-28-96 3-7-96 8-21-96

Spud Date Date Reached TD Completion Date

API NO. 15- 081-21005-0000

County HASKELL

150 E of - NE - SE Sec. 21 Twp. 29 Rge. 34 E W

1980 Feet from (circle one) Line of Section

510 Feet from (circle one) Line of Section

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

Lease Name RAY "C" Well # 4

Field Name EUBANK

Producing Formation CHESTER

Elevation: Ground 2975.9 KB --

Total Depth 5600 PBSD 5532

Amount of Surface Pipe Set and Cemented at 1804 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 3149 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT 1 OK 7-10-96
(Data must be collected from the Reserve Pit)

Chloride content 1100 ppm Fluid volume 700 bbls

Dewatering method used NATURAL EVAPORATION

Location of fluid disposal if hauled offsite: _____

RELEASED

Operator Name _____

Lease Name SEP 16 1998 License No. _____

Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County HASKELL Docket No. _____

FROM CONFIDENTIAL

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.

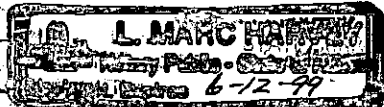
Signature David W. Kapple

DAVID W. KAPPLE

Title DIVISION DRILLING ENGINEER Date 9/5/96

Subscribed and sworn to before me this 5th day of September 19 96.

Notary Public L. Marc Hooper



Date Commission Expires _____

K.C.C. OFFICE USE ONLY		
F <input checked="" type="checkbox"/>	Letter of Confidentiality Attached	
C <input checked="" type="checkbox"/>	Wireline Log Received	
C <input type="checkbox"/>	Geologist Report Received	
Distribution		
<input checked="" type="checkbox"/> KCC	<input type="checkbox"/> SWD/Rep	<input type="checkbox"/> NGPA
<input checked="" type="checkbox"/> KGS	<input type="checkbox"/> Plug	<input type="checkbox"/> Other
(Specify)		
RECEIVED DIVISION COMMISSION		
SEP 9 1996		

9-9-96

Form ACO-1 (7-91)

CONFIDENTIAL - ORIGINAL FILED IN THE OFFICE OF THE ATTORNEY GENERAL, WICHITA, KANSAS

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name RAY "C" Well # 4

Sec. 21 Twp. 29 Rge. 34 East West County HASKELL

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	B/STONE CORRAL	1810	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHASE	2510	
List All E.Logs Run: DIL, ML, CNL-LCT, SONIC, SBT-CCL-GR.		COUNCIL GROVE	2844	
		HEEBNER	3975	
		LANSING	4058	
		MARMATON	4660	
		MORROW	5170	
		CHESTER	5336	
		ST. LOUIS	5464	

CASING RECORD							
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	1804	P+ MIDCON/ P+	340/160	3%CC, 1/4#SK FLC, 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8	5-1/2	15.5	5591	VERSASET	150	.6%HALAD322, 5% KCL, 1/4#SK FLC.
			F. O. TOOL @	3149	MIDCON 2	60	3%CC, 1/4#SK FLC.

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
2	5375-5402'	ACID: 3100 GAL 7-1/2% FEHCL.	5375-5402'
		FRAC: 24000 GHAL 35# XLINK GEL & 80000#	5375-5402'
		16/30 SD.	

TUBING RECORD	Size 2-3/8	Set At '5356'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No.
Date of First, Resumed Production, SWD or Inj. 4-29-96	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. 64	Gas Mcf 40	Water Bbls. 21	Gas-Oil Ratio Gravity

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: 5375-5402'

KCC

ORIGINAL

GABBERT-JONES, INC.
WICHITA, KANSAS

DRILLER'S WELL LOG

RELEASED

SEP 16 1998

WELL NAME: Ray C-4
1980 FSL & 510 FEL
Sec 21-29S-34W
Haskell County, Kansas

CONFIDENTIAL

FROM CONFIDENTIAL
KCC

COMMENCED: February 28, 1996

15-081-21005

JUN 21

COMPLETED: March 9, 1996

CONFIDENTIAL

OPERATOR: Anadarko Petroleum Corporation

DEPTH		FORMATION	REMARKS
From	To		
0	390	Sand	Ran 41 jts new 24#
390	1185	Sand-Redbed-Gypsum	8 5/8" casing (1730')
1185	1265	Redbed & Gypsum	set @ 1715' w/315 sax
1265	1450	Sand	Midcon #2 3% CC 1/4# FS
1450	1610	Redbed & Gypsum	160 sax Prem Plus + CC
1610	1804	Redbed & Gypsum	2% CC 1/4# FS PD @
1804	1925	Redbed	10:30AM 02/12/96
1925	2405	Redbed	
2405	2725	Redbed & Gypsum, Shale	
2725	3070	Shale	Ran 142 jts new 15.5#
3070	3355	Shale	5 1/2" (5940') set @ 5925'
3355	3590	Lime & Shale	FO Tool @ 3109' Cem
3590	3950	Lime & Shale	w/150 sax Midcon #2
3950	4100	Lime & Shale	2% CC 1/4# FS 160 sax
4100	4140	Lime & Shale	Duraset w/2% CC
4140	4275	Lime & Shale	1/4# FS PD @ 10:30PM
4275	4425	Lime & Shale	02/22/96
4425	4590	Lime & Shale	Cem Rat Hole w/15 sax
4590	4715	Lime & Shale	Cem Mouse Hole w/10 sax
4715	4855	Lime & Shale	
4855	4990	Lime & Shale	
4990	5143	Lime & Shale	
5143	5290	Lime & Shale	
5290	5410	Lime & Shale	
5410	5505	Lime & Shale	
5505	5600	Lime & Shale	

5600' TD

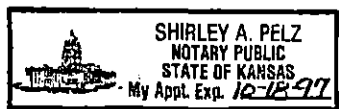
[STATE OF KANSAS]
[COUNTY OF SEDGWICK]

Subscribed and sworn to before me this
12th day of March, 1996.

Shirley A. Pelz
Shirley A. Pelz, Notary Public

My commission expires:
October 18, 1997

glog0001



I, the undersigned, being sworn on oath, state that
the above Driller's Well Log is true and correct to
the best of my knowledge and belief and according
to the records of this office.
GABBERT-JONES, INC.

Jack W. Gabbert
Jack W. Gabbert - President

RECEIVED
KANSAS CORPORATION COMMISSION

JUN 24 1996

CONSERVATION DIVISION
WICHITA, KS

RECEIVED
JUN 24 1996

RECEIVED
JUN 24 1996



JOB SUMMARY

HALLIBURTON DIVISION Midcontinent
 HALLIBURTON LOCATION Liberal Ks

BILLED ON TICKET NO. 919870

KCC

FIELD Eutaw SEC. 21 TWP. 29S RING. 34U COUNTY Haskell 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 _____
 PACKER TYPE _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	23 ⁰⁰	8 5/8	G1	1804	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

CONFIDENTIAL

ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-29-97</u>	DATE <u>2-29-97</u>	DATE <u>2-29-98</u>	DATE <u>2-29-98</u>
TIME <u>0600</u>	TIME <u>0900</u>	TIME <u>1302</u>	TIME <u>1420</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>Insert 4 1/2</u>	<u>1</u>	
FLOAT SHOE		
GUIDE SHOE <u>Reg</u>	<u>1</u>	
CENTRALIZERS <u>S-4</u>	<u>5</u>	
BOTTOM PLUG		
TOP PLUG <u>5W</u>	<u>1</u>	
HEAD <u>QCPC</u>	<u>1</u>	
PACKER <u>Basket</u>	<u>1</u>	
OTHER <u>Weld A</u>	<u>146</u>	

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R Crist</u>	<u>450095</u>	<u>Liberal</u>
<u>D7653</u>		
<u>T Broadfoot</u>	<u>52947</u>	<u>"</u>
<u>D4604</u>	<u>75496</u>	
<u>Dallas Corpening</u>	<u>4115</u>	<u>Hugoton</u>
<u>G2728</u>	<u>7620</u>	
<u>Debris Corpening</u>	<u>50866</u>	<u>"</u>
<u>H2441</u>	<u>7649</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 5001
 DESCRIPTION OF JOB 010
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X Jim Snelson
 HALLIBURTON OPERATOR Ron Crist
 COPIES REQUESTED 2

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>340</u>	<u>midcon</u>		<u>B</u>	<u>3% CC, 1/4% K L locale</u>	<u>3.22</u>	<u>11.1</u>
	<u>160</u>	<u>Prem 4</u>		<u>B</u>	<u>2% CC</u>	<u>1.34</u>	<u>14.8</u>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 42' REASON Shoe Joint

SUMMARY

VOLUMES JUL 24 1900
 PRES LUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____
 CEMENT SLURRY: BBL.-GAL. 195 Lc, 38 TC
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS

circulated 64 BBLs 111 SKs To BIT

CUSTOMER Anadarko Co Pet
 LEASE Ray 11C
 WELL NO. 4
 JOB TYPE 010
 DATE 2-29-98

JOB LCG HAL-2013-C

CUSTOMER **APC** WELL NO. **4** LEASE **Ran "C"** JOB TYPE **010** TICKET NO. **719 870**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							Called out
	0900							on Loc Pr19 ORIGINAL
	1010							Comin out of Hole TD 1804'
	1115							out of Hole Rig up Casers
	1242							Run 8 5/8 CSg 1825'
	1250							CSg Run Hook To Circulate
	1302							Circ To pit SAFETY meeting
	1302							Hook iron To cmt
	1316					0-120	0-120	Start Lead cmt
	1348	65	195			120-180	120-180	Lead cmt Pumped Start Tail cmt
	1351	7.4	38					Tail cmt Pumped Shut Down Prop Plug
	1357					0-220		Start Disp
	1415	5	104			220		Slow Rate
	1420	2	10			220-500		Bump Plug Float

CONFIDENTIAL

RCU
RELEASED JUN 2 1996
SEP 16 1998 CONFIDENTIAL
FROM CONFIDENTIAL

RECEIVED
CORPORATION COMMISSION
JUN 24 1996
CONSERVATION DIVISION
WICHITA, KS



HALLIBURTON ENERGY SERVICES

HAL-1906-N

SERVICE LOCATIONS

1. *W. Kansas*
2. *Missouri*
- 3.
- 4.

WELL/PROJECT NO. *4*

LEASE *Ray C*

COUNTY/PARISH *Haskell*

STATE *KS*

CITY/OFFSHORE LOCATION

DATE *JUN 21 1998*

OWNER *SHAW*

TICKET TYPE
 SERVICE
 SALES

NITROGEN JOB?
 YES
 NO

CONTRACTOR

RIG NAME/NO.

SHIPPED VIA

DELIVERED TO

ORDER NO.

INSERVATION WITHIN

WELL TYPE *02*

WELL CATEGORY *01*

JOB PURPOSE *010*

WELL PERMIT NO. *APR 1505-1210-0500*

WELL LOCATION *21-245-346*

REFERRAL LOCATION

INVOICE INSTRUCTIONS

RECEIVED
 HALLIBURTON CORPORATION
 OPERATIONS COMMUNICATION
 No. 1998

TICKET
 919870 - 6
 PAGE 1 OF 1

CONFIDENTIAL
 JUN 21 1998

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117					MILEAGE	88	mi			2.85	250.80
000-119					Crew Mileage	88	mi			1.50	132.00
010-016					Pump Charge	1500	FT	6	EA		1320.00
030-015					Top Plug	8 5/8	in	1	EA		130.00
12A	825-217				Guide Shoe	8 5/8	in	1	EA		215.00
24A	815-19508				Insert float	8 5/8	in	1	EA		195.00
41	806-61048				Centralizer	8 5/8	in	5	EA	61.90	309.50
330	806-71460				Basket	8 5/8	in	1	EA		124.00
350	890-10802				weld A	1	lb	1	EA		15.00

ORIGINAL

RELEASED

SEP 16 1998

CONFIDENTIAL
 FROM CONFIDENTIAL

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

J. M. Barlow
 DATE SIGNED _____ TIME SIGNED _____
 A.M. P.M.
 I do do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS:
 PULLED & RETURN PULLED RUN

TYPE LOCK _____ DEPTH _____

BEAN SIZE _____ SPACERS _____

TYPE OF EQUALIZING SUB _____ CASING PRESSURE _____

TUBING SIZE _____ TUBING PRESSURE _____ WELL DEPTH _____

TREE CONNECTION _____ TYPE VALVE _____

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? AGREE UN-DECIDED DIS-AGREE

WE UNDERSTOOD AND MET YOUR NEEDS? AGREE UN-DECIDED DIS-AGREE

OUR SERVICE WAS PERFORMED WITHOUT DELAY? AGREE UN-DECIDED DIS-AGREE

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? AGREE UN-DECIDED DIS-AGREE

ARE YOU SATISFIED WITH OUR SERVICE?
 YES NO

CUSTOMER DID NOT WISH TO RESPOND

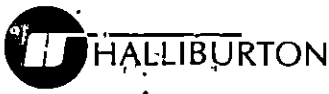
PAGE TOTAL *2687*

FROM CONTINUATION PAGE(S) *9911*

SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE *1260*

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket:

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) *J. M. Barlow* CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) *J. M. Barlow* HALLIBURTON OPERATOR/ENGINEER *Ron Crist* EMP # *07657* HALLIBURTON APPROVAL _____



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Mid-Cont.
Liberal

BILLED ON TICKET NO. 921454

WELL DATA
FIELD Santa SEC 22 TWP. 31S RNG. 74W COUNTY Marshall STATE Kan

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 _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	15.5	5 1/2	0	5591	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES			
TYPE AND SIZE	QTY.	MAKE	
FLOAT COLLAR <u>Loss with F. 11-00 J4</u>	1		
FLOAT SHOE		H	
GUIDE SHOE <u>5 1/2</u>	1		
CENTRALIZERS <u>11</u>	15	O	
BOTTOM PLUG		W	
TOP PLUG <u>5 1/2</u>	1	C	
HEAD <u>11</u>	1	O	
PACKER <u>Darbit</u>	1		
OTHER			

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>3-9</u>	DATE <u>3-9</u>	DATE <u>3-9</u>	DATE <u>3-9</u>
TIME <u>2300</u>	TIME <u>0200</u>	TIME <u>0900</u>	TIME <u>1100</u>

PERSONNEL AND SERVICE UNITS		
NAME	UNIT NO. & TYPE	LOCATION
<u>Dustin</u>	<u>30872</u>	<u>Liberal</u>
<u>Macgouder</u>	<u>52938</u>	<u>"</u>
<u>Longworth</u>	<u>52827</u>	<u>Hugoton</u>
	<u>6610</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. _____ IN
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

DEPARTMENT Cement
DESCRIPTION OF JOB 5 1/2 Longworth

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
CUSTOMER REPRESENTATIVE X O G. S. Turk
HALLIBURTON OPERATOR Clint Dugan COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	25	Prim		B	4 1/2% 322, 5% UCL, 9% Versaret, 4% Florite	1.41	14.5
2	150	Prim		B	4 1/2% 322, 5% UCL, 9% Versaret, 4% Florite	1.41	14.5

PRESSURES IN PSI
CIRCULATING _____ DISPLACEMENT _____
BREAKDOWN _____ MAXIMUM _____
AVERAGE _____ FRACTURE GRADIENT _____
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
HYDRAULIC HORSEPOWER _____
ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET 42+ REASON Shop Joint

SUMMARY

VOLUMES
PRESLUSH: BBL.-GAL. 10 TYPE Super Flush
LOAD & BKDN: BBL.-GAL. 16 PAD: BBL.-GAL. _____
TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 132
CEMENT SLURRY: BBL.-GAL. 37.6
TOTAL VOLUME: BBL.-GAL. 201
REMARKS _____

CUSTOMER Hugoton Prod Co.
LEASE Ray-C
WELL NO. 4
JOB TYPE 5 1/2 Longworth
DATE 3-9-96

JOB LOG HAL-2013-C

CUSTOMER: **Anadarko Pet. Co.** WELL NO.: **4** LEASE: **Ray C** JOB TYPE: **5 1/2 Logging** TICKET NO.: **921454**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2300							Called Out
	0200							On Location
	0530							Started Csg
	0800							On Bottom Circ.
	0850							Plug Rat & Mouse Hole
	0900	4	8				200	Pump H ₂ O
	0902	5	10				200	Pump Super Flush
	0904	4	8				200	Pump H ₂ O
	0906	4 1/2	37				200	Pump Int D 14.5"
	0914							Wash Pz L's
	0917	4.8	132				100	Displace
	0913						600	Shut Down Didn't Bump Plug
	0944							Release Pri Float Held
	1000							Job Complete
								CONFIDENTIAL
								KCC
								JUN 2 1
								CONFIDENTIAL
								RELEASED
								SEP 16 1998
								FROM CONFIDENTIAL



HALLIBURTON ENERGY SERVICES

HAL-1906-N

CHARGE TO: Anadarko Petroleum Corp.
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

CUSTOMER COPY

TICKET

No. **921454 - 6**

PAGE 1 OF _____

SERVICE LOCATIONS 1. <u>025580</u> 2. <u>025585</u> 3. _____ 4. _____	WELL/PROJECT NO. <u>4</u>	LEASE <u>Ray C</u>	COUNTY/PARISH <u>Haskell</u>	STATE <u>OK</u>	CITY/OFFSHORE LOCATION <u>Saltwater</u>	DATE <u>3-9-96</u>	OWNER <u>Sumit</u>
TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTRACTOR <u>Co. bbr. 18 Jones</u>	RIG NAME/NO. <u>12</u>	SHIPPED VIA <u>Trk</u>	DELIVERED TO <u>Local</u>	ORDER NO.	
WELL TYPE <u>02 br.</u>	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>035 5 1/2 Lingulins</u>	WELL PERMIT NO.	WELL LOCATION	REFERRAL LOCATION	INVOICE INSTRUCTIONS	

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING	DESCRIPTION	QTY.	UOM	UNIT PRICE	AMOUNT
016-117	NOO		MILEAGE	1	EA	262.20	262.20
016-117	NOO		1/2" x 1/2" x 1/2"	1	EA	1.38	1.38
016-016	NOO		Pump Charge	1	EA	3000.00	3000.00
016-317	NOO		Supply Flush	10	EA	100.00	1000.00
124	825.205		1/2" x 1/2" x 1/2"	1	EA	121.00	121.00
244	625.19251		Basic Plant Value	1	EA	170.00	170.00
27	625.19311		Fill in Attachment	1	EA	69.00	69.00
10	625.19422		Flange	15	EA	70.00	700.00
320	625.19430		Block	1	EA	104.00	104.00
030-118			Top Plate	1	EA	65.00	65.00
			15 1/2" x 1/2" x 1/2" Ticket # 219892				3751.63

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: 3/9/96 TIME SIGNED: 5:00 A.M. P.M.

do do not require IPC (Instrument Protection). Not offered

CUSTOMER DID NOT WISH TO RESPOND

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	SURVEY: AGREE UN-DECIDED DIS-AGREE	PAGE TOTAL: 8720
TYPE LOCK DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	FROM CONTINUATION PAGE(S)
BEAN SIZE SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?	
TYPE OF EQUALIZING SUB. CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	
TUBING SIZE TUBING PRESSURE WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	
TREE CONNECTION TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <u>Clint Duggins</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>X E.T. Stueck</u>	HALLIBURTON OPERATOR/ENGINEER <u>Clint Duggins</u>	EMP # <u>8890</u>	HALLIBURTON APPROVAL
---	--	---	----------------------	----------------------



JOB SUMMARY

HALLIBURTON DIVISION Midland
 HALLIBURTON LOCATION Lisial, K.

BILLED ON TICKET NO. 921519 **KCC**

WELL DATA
 FIELD _____ SEC 21 TWP. 29S RNG. 34W COUNTY Haskell 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 Bit/Flare SET AT 3149
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		15.5	5 1/2	GL	-	
LINER						
TUBING			2 3/8	KB	3149	
OPEN HOLE			2 3/8	KB	5016	SHOTS/FT.
PERFORATIONS						<u>12-1/2 Annular</u>
PERFORATIONS						
PERFORATIONS						

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. °API
 DISPL. FLUID _____ DENSITY _____ LB/GAL. °API
 PROP. TYPE _____ SIZE _____ LB.
 PROP. TYPE _____ SIZE _____ LB.
 ACID TYPE Hcl GAL. 250 % 7 1/2
 ACID TYPE _____ GAL. _____ % _____
 ACID TYPE Hot 81 ml GAL. 1 % _____
 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. _____ IN _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER Flush 250 gal / Pressure out 4/30 2000
 OTHER _____

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>4-11</u>	DATE <u>14-11</u>	DATE <u>14-11</u>	DATE <u>14-11</u>
TIME <u>0700</u>	TIME <u>0930</u>	TIME <u>1255</u>	TIME <u>1630</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. Jones</u>	<u>420041</u>	<u>Lisial, Ks</u>
<u>R. Britton</u>	<u>52834 / 75051</u>	<u>"</u>
<u>D. Compney</u>	<u>4115 / 75337</u>	<u>Houston, Ks</u>
<u>S. Becke</u>	<u>3501</u>	<u>Lisial, Ks</u>

ORIGINAL

CONFIDENTIAL

DEPARTMENT Contract
 DESCRIPTION OF JOB Cement Pore Collar
1 Pore Collar Turns
 JOB DONE THRU: TUBING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE X John S. ...
 HALLIBURTON OPERATOR Dennis ... COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>60</u>	<u>Midland</u>			<u>KCC</u>	<u>3.22</u>	<u>11.1</u>
					<u>JUN 2 1998</u>		
					<u>CONFIDENTIAL</u>		

PRESSURES IN PSI
 CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET _____ REASON _____

SUMMARY

VOLUMES
 PRES LUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 11.5
 CEMENT SLURRY: BBL.-GAL. 34.5
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS

CUSTOMER Amesbury Petroleum Corp
 LEASE 10-11-98
 WELL NO. 14
 JOB TYPE Cement Pore Collar
 DATE 4-11-98

JOB LOG HAL-2013-C

 CUSTOMER Anders Petroleum WELL NO. 4 LEASE Ray C JOB TYPE Cont. Port Cell TICKET NO. 921519

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0700							Time collect
	1000							Time Ready
	0930							Time on bc. By Port Cell in the
	1020							Hookup To Tubs Open Port Cell
								Temp Tubing
	1255							Hookup To Tubs
	1258					1500		Pickup Tubs
	1300					1300		Release Press
	1301							Open Port Cell
	1304	3				750		Start Pumping
	1305	3						Circulate Fluid Around
	1310	7.0						Stop Down
	1314							Start W/ Cont
	1320	34.5						Start W/ Cont
	1321							Start Displacement
	1325	11.5						Stop Down
	1326					1500		Pressure
	1328							Release Press
	1329							Hookup To Pressure
	1332							Start Pumping
	1345	20						Stop Down
	1347							Back lose + By Port Tubs To Bottom
	1500							Hookup Tubs at 5010 FT
	1505	250%						Start Acid
	1510							Start Flush
	1538	250%						Stop Down
	1540							Hookup To Cont. + Pressure at
	1543	40						Start Pumping
	1625							Stop Down
	1628							Back lose
	1630							Final w/ close.

ORIGINAL
CONFIDENTIAL

KCC

JUN 21

CONFIDENTIAL

Class Test

FROM CONFIDENTIAL

SEP 16 1998

Thanks For Calling Halliburton Energy Services
 CUSTOMER



HALLIBURTON ENERGY SERVICES

HAL-1906-N

CHARGE TO: Amadekko Petroleum
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

DUNCAN COPY

TICKET

No. 921519 - 5

PAGE 1 OF _____

SERVICE LOCATIONS 125540 <u>Wichita</u> 25535 <u>Hogton</u>	WELL/PROJECT NO. 4 #	LEASE Roy C	COUNTY/PARISH Haskell	STATE KS	CITY/OFFSHORE LOCATION	DATE 14-11-96	OWNER Amadekko
TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Rex Well Services	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO Loc.	ORDER NO.	
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE Cent Prod Collar	WELL PERMIT NO.	WELL LOCATION NW of Santa		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS 0102					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC ACCT DF	DESCRIPTION	QTY.	U/M	UNIT PRICE	AMOUNT
000-117			MILEAGE	76	hrs	2.85	216.60
000-119			Crew Mileage	76	hrs	1.50	114.00
009-019			Pump change	3149	FT		1590.00
009-027			Mechanical Hours	2	hrs	235.00	470.00
300-130			Transportation	4	hrs	35.00	140.00
201-004			HCL	250	BL	102.00	255.00
210-017			HAT 81	1	BL	39.00	39.00

JUN 21
 CONFIDENTIAL
 ORIGINAL

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 RELEASED
 6 1996

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: John Sharp TIME SIGNED: _____
 A.M. P.M.
 do do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS:
 PULLED & RETURN PULLED RUN

TYPE LOCK	DEPTH	
BEAN SIZE	SPACERS	
TYPE OF EQUALIZING SUB.	CASING PRESSURE	
TUBING SIZE	TUBING PRESSURE	WELL DEPTH
TREE CONNECTION	TYPE VALVE	

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?	AGREE	UN-DECIDED	DIS-AGREE
OUR SERVICE WAS PERFORMED WITHOUT DELAY?	AGREE	UN-DECIDED	DIS-AGREE
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	AGREE	UN-DECIDED	DIS-AGREE
ARE YOU SATISFIED WITH OUR SERVICE?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL: 2824.60
 FROM CONTINUATION PAGE(S): 1286.04
 SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <u>John Sharp</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>[Signature]</u>	HALLIBURTON OPERATOR/ENGINEER <u>Lionel Dennis Lane 59179</u>	EMP #	HALLIBURTON APPROVAL
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CONFIDENTIAL

RELEASED

SEP 16 1998

FROM CONFIDENTIAL

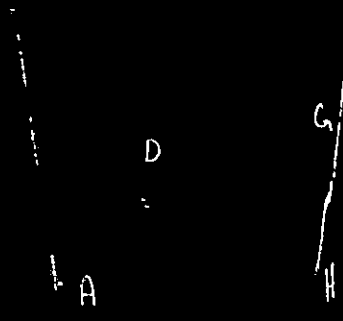
ANADARKO PETROLEUM CORPORATION
 15-081-21005
 LEASE : RAY C
 WELL NO. : 4
 TEST NO. : 1
 JUN 21
 CONFIDENTIAL

TICKET NO. 92111700
 11-MAR-96
 LIBERAL

ORIGINAL

RAY C
 LEASE NAME
 WELL NO. 4
 TEST NO. 1
 LEGAL LOCATION
 SEC. - TWP. - RANG. 21 - 29 S - 34 W
 FIELD AREA
 EUBANK
 COUNTY
 HASKELL
 STATE
 KANSAS
 4116.1 - 4140.0
 TESTED INTERVAL
 ANADARKO PETROLEUM CORPORATION
 LEASE OWNER/COMPANY NAME

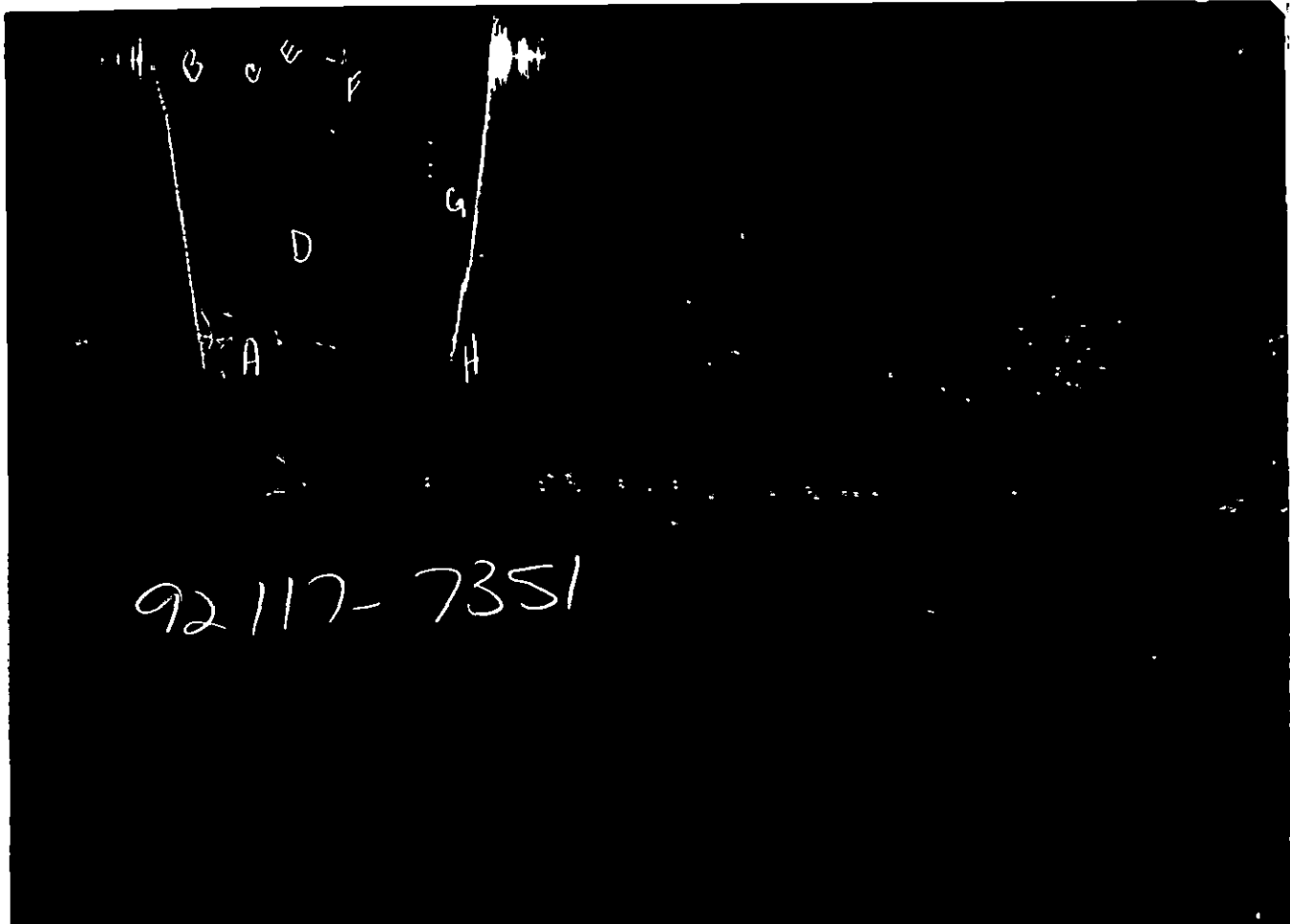
B. C. C. F



92 1117- 7352

GAUGE NO: 7352 DEPTH: 4095.2 BLANKED OFF: NO. HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1918	2026.8			
B	INITIAL FIRST FLOW	16	11.0			
C	FINAL FIRST FLOW	68	65.2	32.0	31.2	F
C	INITIAL FIRST CLOSED-IN	68	65.2			
D	FINAL FIRST CLOSED-IN	1011	1009.2	60.0	60.3	C
E	INITIAL SECOND FLOW	68	71.6			
F	FINAL SECOND FLOW	152	151.9	61.0	59.0	F
F	INITIAL SECOND CLOSED-IN	152	151.9			
G	FINAL SECOND CLOSED-IN	977	980.7	123.0	125.5	C
H	FINAL HYDROSTATIC	1918	1961.0			



92117-7351

GAUGE NO: 7351 DEPTH: 4136.7 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1998	2039.8			
B	INITIAL FIRST FLOW	58	27.7			
C	FINAL FIRST FLOW	83	84.0	32.0	31.2	F
C	INITIAL FIRST CLOSED-IN	83	84.0			
D	FINAL FIRST CLOSED-IN	1038	1027.2	60.0	60.3	C
E	INITIAL SECOND FLOW	106	88.7			
F	FINAL SECOND FLOW	179	169.5	61.0	59.0	F
F	INITIAL SECOND CLOSED-IN	179	169.5			
G	FINAL SECOND CLOSED-IN	1006	999.4	123.0	125.5	C
H	FINAL HYDROSTATIC	1998	1982.8			

EQUIPMENT & HOLE DATA

FORMATION TESTED: LANSING
 NET PAY (ft): 5.0
 GROSS TESTED FOOTAGE: 23.9 PACKER TO T.D.
 ALL DEPTHS MEASURED FROM: G.L.
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 2978.0 AT GROUND LEVEL
 TOTAL DEPTH (ft): 4140.0
 PACKER DEPTH(S) (ft): 4110, 4116
 FINAL SURFACE CHOKE (in): 0.25000 (B. HOSE)
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.0+
 MUD VISCOSITY (sec): 39
 ESTIMATED HOLE TEMP. (°F): 101
 ACTUAL HOLE TEMP. (°F): @ _____ ft

TICKET NUMBER: 92111700
 DATE: 03-04-96 TEST NO: 1
 TYPE DST: OPEN HOLE
 FIELD CAMP: LIBERAL
 TESTER: JEFF CLARK
 WITNESS: JOHN SHILLING
 DRILLING CONTRACTOR: GABBERT & JONES RIG #12

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>PIT</u>	<u>0.260</u> @ <u>70</u> °F	<u>14300</u> ppm
<u>TOP RECOVERY</u>	<u>0.260</u> @ <u>70</u> °F	<u>14300</u> ppm
<u>BOTTOM RECOVERY</u>	<u>0.170</u> @ <u>70</u> °F	<u>64582</u> ppm
<u>SAMPLER</u>	<u>0.170</u> @ <u>70</u> °F	<u>64582</u> ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

Psig AT SURFACE: 151.0
 cu.ft. OF GAS: _____
 cc OF OIL: _____
 cc OF WATER: 2240.0
 cc OF MUD: _____
 TOTAL LIQUID cc: 2240.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F
 GAS/OIL RATIO (cu.ft. per bbl): _____
 GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED :

- 30 FT. OF GAS CUT DRILLING MUD
- 90 FT. OF WATER CUT DRILLING MUD
- 180 FT. OF MUD CUT WATER
- 20 FT. OF SALTWATER

MEASURED FROM TESTER VALVE

REMARKS :

TICKET NO: 92111700

CLOCK NO: 17529 HOUR: 24

GAUGE NO: 7352

DEPTH: 4095.2

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	11.0			
2	3.0	16.5	5.6		
3	5.0	22.1	5.6		
4	9.0	28.9	6.8		
5	12.0	33.5	4.6		
6	15.0	38.8	5.3		
7	18.0	43.1	4.3		
8	21.0	49.9	6.8		
9	24.0	55.0	5.1		
10	27.0	59.2	4.2		
11	30.0	63.5	4.3		
C 12	31.2	65.2	1.7		
FIRST CLOSED-IN					
C 1	0.0	65.2			
2	1.0	485.6	420.4	0.9	1.523
3	2.0	726.3	661.1	1.8	1.228
4	3.0	840.4	775.2	2.8	1.055
5	4.0	888.2	822.9	3.6	0.943
6	5.0	910.4	845.2	4.3	0.862
7	6.0	926.7	861.5	5.0	0.792
8	7.0	936.1	870.9	5.7	0.739
9	8.0	943.8	878.6	6.4	0.692
10	9.0	949.3	884.1	7.0	0.650
11	10.0	953.5	888.3	7.6	0.615
12	12.0	960.2	895.0	8.7	0.557
13	14.0	966.2	901.0	9.7	0.509
14	16.0	970.5	905.2	10.6	0.470
15	18.0	974.2	909.0	11.4	0.438
16	20.0	977.5	912.3	12.2	0.409
17	22.0	980.4	915.2	12.9	0.384
18	24.0	983.1	917.9	13.6	0.362
19	26.0	985.7	920.5	14.2	0.343
20	28.0	987.6	922.4	14.8	0.326
21	30.0	989.9	924.7	15.3	0.310
22	35.0	994.6	929.4	16.5	0.277
23	40.0	998.8	933.6	17.6	0.250
24	45.0	1001.6	936.4	18.4	0.229
25	50.0	1004.5	939.3	19.2	0.211
26	55.0	1006.6	941.4	19.9	0.195
D 27	60.3	1009.2	944.0	20.6	0.181
SECOND FLOW					
E 1	0.0	71.6			
2	5.0	76.9	5.3		
3	10.0	85.2	8.4		
4	15.0	94.5	9.3		
5	20.0	101.6	7.1		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
6	25.0	107.6	6.0		
7	30.0	114.6	7.0		
8	35.0	120.8	6.2		
9	40.0	127.9	7.1		
10	45.0	134.6	6.7		
11	50.0	140.9	6.3		
12	55.0	146.8	5.9		
F 13	59.0	151.9	5.1		
SECOND CLOSED-IN					
F 1	0.0	151.9			
2	1.0	402.3	250.4	1.0	1.977
3	2.0	614.3	462.5	2.0	1.661
4	3.0	758.2	606.3	2.9	1.488
5	4.0	816.9	665.0	3.9	1.369
6	5.0	845.1	693.2	4.8	1.278
7	6.0	863.6	711.7	5.7	1.202
8	7.0	873.1	721.2	6.5	1.143
9	8.0	881.1	729.3	7.3	1.089
10	9.0	887.8	735.9	8.2	1.042
11	10.0	891.9	740.0	9.0	1.003
12	12.0	899.2	747.3	10.6	0.930
13	14.0	904.9	753.1	12.1	0.871
14	16.0	909.6	757.7	13.6	0.822
15	18.0	914.4	762.5	15.0	0.778
16	20.0	918.2	766.3	16.4	0.742
17	22.0	921.4	769.5	17.7	0.708
18	24.0	924.5	772.7	19.0	0.678
19	26.0	927.8	775.9	20.2	0.650
20	28.0	930.5	778.7	21.4	0.625
21	30.0	932.6	780.7	22.5	0.603
22	35.0	939.0	787.1	25.2	0.554
23	40.0	943.1	791.2	27.7	0.513
24	45.0	947.7	795.8	30.0	0.478
25	50.0	950.8	799.0	32.2	0.448
26	55.0	954.6	802.7	34.2	0.422
27	60.0	957.7	805.8	36.1	0.399
28	70.0	962.5	810.6	39.4	0.360
29	80.0	966.4	814.5	42.4	0.328
30	90.0	970.3	818.4	45.1	0.302
31	100.0	973.4	821.5	47.4	0.279
32	110.0	976.5	824.6	49.6	0.260
G 33	125.5	980.7	828.8	52.5	0.235

REMARKS:

TICKET NO: 92111700

GAUGE NO: 7351
















CLOCK NO: 17524 HOUR: 24

DEPTH: 4136.7

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	27.7			
2	3.0	34.7	7.0		
3	6.0	40.5	5.9		
4	9.0	46.9	5.3		
5	12.0	51.5	4.6		
6	15.0	56.7	5.2		
7	18.0	61.0	4.3		
8	21.0	68.9	7.9		
9	24.0	73.5	4.6		
10	27.0	77.2	3.6		
11	30.0	81.5	4.3		
C 12	31.2	84.0	2.5		
FIRST CLOSED-IN					
C 1	0.0	84.0			
2	1.0	276.7	192.7	0.9	1.527
3	2.0	733.9	649.9	1.9	1.220
4	3.0	855.4	771.4	2.7	1.053
5	4.0	903.5	819.4	3.5	0.948
6	5.0	928.9	844.9	4.3	0.859
7	6.0	944.2	860.2	5.1	0.791
8	7.0	955.2	871.2	5.7	0.736
9	8.0	961.6	877.6	6.4	0.689
10	9.0	966.7	882.7	7.0	0.650
11	10.0	971.2	887.2	7.6	0.616
12	12.0	978.3	894.2	8.7	0.557
13	14.0	983.9	899.8	9.7	0.510
14	16.0	988.3	904.3	10.6	0.471
15	18.0	992.2	908.2	11.4	0.437
16	20.0	996.0	912.0	12.2	0.409
17	22.0	998.6	914.5	12.9	0.384
18	24.0	1000.8	916.8	13.6	0.362
19	26.0	1003.2	919.2	14.2	0.343
20	28.0	1005.6	921.6	14.8	0.326
21	30.0	1007.8	923.8	15.3	0.310
22	35.0	1012.2	928.1	16.5	0.277
23	40.0	1016.0	932.0	17.5	0.251
24	45.0	1019.2	935.2	18.4	0.229
25	49.9	1021.7	937.7	19.2	0.211
26	55.0	1024.5	940.5	19.9	0.195
D 27	60.3	1027.2	943.2	20.6	0.181
SECOND FLOW					
E 1	0.0	88.7			
2	5.0	94.3	5.6		
3	10.0	103.0	8.7		
4	15.0	111.7	8.7		
5	20.0	118.2	6.5		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
6	25.0	125.4	7.1		
7	30.0	131.6	6.2		
8	35.0	138.2	6.7		
9	40.0	145.5	7.3		
10	45.0	152.2	6.7		
11	50.0	158.6	6.4		
12	55.0	163.8	5.2		
F 13	59.0	169.5	5.7		
SECOND CLOSED-IN					
F 1	0.0	169.5			
2	1.0	410.4	240.9	1.0	1.941
3	2.0	639.8	470.3	2.0	1.657
4	3.0	767.5	598.0	2.9	1.494
5	4.0	833.6	664.1	3.8	1.372
6	5.0	863.5	694.0	4.8	1.278
7	6.0	881.1	711.6	5.6	1.207
8	7.0	893.2	723.7	6.5	1.143
9	8.0	901.5	732.0	7.4	1.089
10	9.0	906.6	737.1	8.2	1.044
11	10.0	910.8	741.3	9.0	1.001
12	12.0	917.7	748.2	10.6	0.930
13	14.0	923.3	753.8	12.1	0.871
14	16.0	928.1	758.5	13.6	0.823
15	18.0	932.1	762.5	15.0	0.780
16	20.0	936.1	766.5	16.4	0.741
17	22.0	939.1	769.6	17.7	0.708
18	24.0	942.4	772.9	19.0	0.677
19	26.0	946.1	776.6	20.2	0.650
20	28.0	948.7	779.2	21.4	0.625
21	30.0	950.9	781.4	22.5	0.603
22	35.0	956.4	786.8	25.2	0.553
23	40.0	961.6	792.1	27.7	0.513
24	45.0	965.1	795.6	30.0	0.478
25	50.0	969.0	799.5	32.2	0.448
26	55.0	972.2	802.7	34.2	0.422
27	60.0	975.5	806.0	36.0	0.399
28	70.0	980.2	810.7	39.4	0.360
29	80.0	984.8	815.3	42.4	0.328
30	90.0	988.8	819.3	45.1	0.302
31	100.0	992.5	823.0	47.5	0.279
32	110.0	995.2	825.7	49.6	0.260
G 33	125.5	999.4	829.8	52.5	0.235

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	3457.6	
3		DRILL COLLARS.....	6.250	2.250	527.6	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.3	3985.9
3		DRILL COLLARS.....	6.250	2.250	90.6	
5		CROSSOVER.....	6.250	2.250	1.0	
11		HANDLING SUB & CHOKE ASSEMBLY...	4.500	3.500	4.7	
13		DUAL CIP SAMPLER.....	5.000	0.750	6.6	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	4093.6
80		AP RUNNING CASE.....	5.000	2.250	4.1	4095.2
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	6.750	1.530	5.8	4110.3
70		OPEN HOLE PACKER.....	6.750	1.530	5.8	4116.1
20		FLUSH JOINT ANCHOR.....	5.000	2.370	18.0	
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1	4136.7
TOTAL DEPTH						4140.0

EQUIPMENT DATA