

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

ORIGINAL

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: TEXACO TRADING & TRANSPORTATION, INC.

Operator Contact Person: J. L. ASHTON

Phone (316) 624-6253

Contractor: Name: NORSEMAN DRILLING

License: 3779

Wellsite Geologist: N/A

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. _____

2-7-96 2-16-96 3-8-96
Spud Date Date Reached TD Completion Date

API NO. 15- 081-21000-0000

County HASKELL

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

1980 Feet from NX (circle one) Line of Section

510 Feet from EX (circle one) Line of Section

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

Lease Name RAY "C" Well # 3

Field Name EUBANK

Producing Formation CHESTER

Elevation: Ground 2976.1 KB --

Total Depth 5570 PBDT 5525

Amount of Surface Pipe Set and Cemented at 1795 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 3168 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ACT 1 DPW
(Data must be collected from the Reserve Pit) 6-14-96

Chloride content 1100 ppm Fluid volume 700 bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name SEP 16 1998

Lease Name FROM CONFIDENTIAL Docket No. _____

Quarter SE Sec. 21 Twp. 29 S Rng. 34 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 David W. Kapple

Title DIVISION DRILLING ENGINEER Date 5/1/96

Subscribed and sworn to before me this 1st day of May 19 96.

Notary Public L. Marc Harvey

Date Commission Expires _____

L. MARC HARVEY
Notary Public - State of Kansas
My Appl. Expires 6-13-98

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)
RECEIVED
CORPORATION COMMISSION

MAY 07 1996 Form ACO-1 (7-91)
5-7-96
CONSERVATION DIVISION
WICHITA, KS

SIDE TWO

Operator Name ANADARKO PRODUCTION COMPANY Lease Name RAY "C" Well # 3

Sec. 21 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: DIL, CNL-LDT, SONIC, ML, SBT-CCL-GR.

<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample		
Name	Top	Datum
B/STONE CORRAL	1810	
CHASE	2514	
COUNCIL GROVE	2840	
HEEBNER	3972	
LANSING	4054	
KANSAS CITY	4505	
MARMATON	4656	
CHERODEE	4842	
MORROW	5173	
CHESTER	5339	
ST. LOUIS	5457	

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	1795	MIDCON 2/ PREMIUM PLUS	340/160	3%CC, 1/4#SK FLC/ 1/4#SK FLC.
PRODUCTION	7-7/8	5-1/2	15.5	5581	MIDCON 2/ VERSASET	115/135	2%CC, 1/4#SK FLC/ .6%HALAD322, 5%KCL 1/4#SK FLC.
			F.O. TOOL @	3168	MIDCON 2	60	2%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	5436-5455'	NONE	
2	5414-5416' 5377-5406'	ACID: 1400 GAL 7-1/2% FEHCL FRAC: 40000 GAL 2%KCL WTR & 137000# 16/30 SD	5377-5416'

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8	5311		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.		Producing Method		
4-13-96		<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
	10			206
				Water
				Bbls.
				Gas-Oil Ratio
				Gravity

Disposition of Gas: Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled

(If vented, submit ACO-18.) Other (Specify) _____

Production Interval 5377-5455 (OA)

KCC

ORIGINAL

RELEASED

SEP 16 1998

NORSEMAN DRILLING, INC.
WICHITA, KANSAS
DRILLERS' WELL LOG

FROM CONFIDENTIAL

WELL NAME: RAY C-3
SECTION 21-29S-34W
HASKELL COUNTY, KANSAS

COMMENCED: FEBRUARY 6, 1996

COMPLETED: FEBRUARY 17, 1996

OPERATOR: ANADARKO PETROLEUM CORPORATION

Depth From	To	Formation	Remarks
0	1229	Sand & Redbed	Ran 43 jts of 23# of 8 5/8" csg set @ 1810' w/340 SX of Midcon 2; 3% CC; 1/4# SX Flocele; Tailed w/160 SX Midcon 2; 2% CC; 1/4# SX Flocele; Plug down at 11:45 a.m. on 02/09/96.
1230	1450	Glorietta Sand	
1451	3080	Redbed	
3081	5590	Lime & Shale	

Ran 136 jts 5 1/2" 15.5#, Set @ 5591; w/115 SX; Premium Plus Midcon ; 2% CC; 1/4# SX Flocele; Tailed w/135SX Versaset; 0.6% Halad 322; 5% KCL; 1/4# SX Flocele; Plug down at 9:00 p.m. on 02/17/96.

STATE OF KANSAS)
)
)
)
COUNTY OF SEDGWICK)

I the undersigned, being duly sworn on oath, state that the above Drillers' Well Log is true and correct to the best of my knowledge and belief and according to the records of this office.

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 07 1996

NORSEMAN DRILLING, INC.

CONSERVATION DIVISION
WICHITA, KS

James P. Reilly

JAMES P. REILLY, PRESIDENT

Subscribed & sworn to before me this February 22, 1996

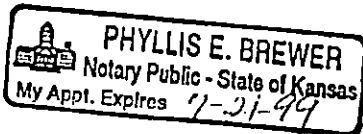
My Appointment Expires: -

Phyllis E. Brewer

Phyllis E. Brewer, Notary Public

11817 Jamesburg
Wichita, KS 67212 (15)

July 21, 1999





JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

MID CONTINENT
LIBERAL KS

BILLED ON TICKET NO. 921154

WELL DATA
FIELD EUBANK SEC. 21 TWP. 29S RNG. 34W COUNTY HASKELL STATE KS

FORMATION NAME SURFACE TYPE FRACK/SHALE
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		8 5/8	0	1798'	1000#
LINER						
TUBING						
OPEN HOLE			17/4	0	1810'	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE <u>KES</u>	<u>1</u>	<u>Houma</u>
CENTRALIZERS <u>3-4</u>	<u>5</u>	<u>Houma</u>
BOTTOM PLUG <u>int basket</u>	<u>1</u>	<u>Houma</u>
TOP PLUG <u>5-10</u>	<u>1</u>	<u>Houma</u>
HEAD <u>INJECT DANCE</u>	<u>1</u>	<u>Houma</u>
PACKER <u>FLUID ASSY</u>	<u>1</u>	<u>Houma</u>
OTHER <u>WFLD D</u>	<u>1</u>	<u>Houma</u>

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2/9</u>	DATE <u>2/9</u>	DATE <u>2/9</u>	DATE <u>2/9/98</u>
TIME <u>07:30</u>	TIME <u>06:00</u>	TIME <u>10:45</u>	TIME <u>11:30</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. _____
NE AGENT TYPE _____ GAL. _____
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 _____ GAL.-LB. _____ IN
OTHER _____
OTHER _____

PERSONNEL AND SERVICE UNITS		
NAME	UNIT NO. & TYPE	LOCATION
<u>B BENJAMIN</u>	<u>94020</u>	<u>LIBERAL</u>
<u>474023</u>	<u>DLUD</u>	<u>LIBERAL</u>
<u>R ELWOOD</u>	<u>52276/1218</u>	<u>LIBERAL</u>
<u>D4360</u>	<u>75TC4</u>	<u>LIBERAL</u>
<u>G MFBZ</u>	<u>50502-1620</u>	<u>HUCOTON</u>
<u>H3509</u>	<u>BULK TSK</u>	<u>HUCOTON</u>
<u>I UNDERWOOD</u>	<u>1115-75237</u>	<u>HUCOTON</u>
<u>H2836</u>	<u>BULK TSK</u>	<u>HUCOTON</u>

RELEASED
SEP 16 1998

FROM CONFIDENTIAL
DEPARTMENT CRAT

DESCRIPTION OF JOB
CRAT 8 5/8 SURFACE CES

JOB DONE THRU: TUBING CASING ANNULUS TSB ANN.

CUSTOMER REPRESENTATIVE X O.J. Stud

HALLIBURTON OPERATOR B BENJAMIN COPIES REQUESTED 1

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>340</u>	<u>DEEM DLG</u>	<u>midcon</u>	<u>B</u>	<u>3% CaCl₂ 1/4" FLOSOLE</u>	<u>3.22</u>	<u>11.1</u>
<u>1A</u>	<u>160</u>	<u>DEEM DLG</u>			<u>2% CaCl₂ 1/4" FLOSOLE</u>	<u>1.34</u>	<u>14.8</u>

PRESSURES IN PSI
CIRCULATING 200 DISPLACEMENT 450
BREAKDOWN _____ MAXIMUM 750
AVERAGE _____ FRACTURE GRADIENT _____
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM
TREATING 6 DISPL. 6 OVERALL 6
CEMENT LEFT IN PIPE
FEET 42' REASON REQUEST

SUMMARY

VOLUMES
PRESLUSH: BBL.-GAL. 5 TYPE W
LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. 112
CEMENT SLURRY: BBL.-GAL. 1949/381
TOTAL VOLUME: BBL.-GAL. 350

REMARKS

Good CRAT Return to P.



JOB LOG HAL-2013-C

DATE 2/9/96 PAGE NO.

CUSTOMER Anadarko Pet WELL NO. #3 LEASE Bay C JOB TYPE OIL TICKET NO. 921154

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	07:30							CALLED @ Home
	08:15							LEFT CAMP
	08:00							on loc. WYTERS
	10:30							SAFETY MISTAKES
	10:45							HALLIBURTON * CUSTOMER READY FOR SERVICES
	10:45	4	5		1	200		Pump Ho AHEAD
	10:47	6	15		2	200		Mix + Pump Lead out @ 111'
	11:20	6	33		2	300		Mix + Pump Detail out @ 142'
	11:28							Shift Down, Release TOP PUG
	11:30	5	10		2	200		Washed on top of PUG
	11:32	6	110		2	400		DISPLACE emt w/ FRESH H2O
	11:50	2	2		1	450		DISPLACE emt w/ FRESH H2O
	11:51					750		HOG DOWN + test PUG
	11:51							Release back front well
	11:51							O.K. JOB COMPLETED
								Stake
								Core approx 20' below 700' out to pit ✓

RELEASED

SEP 16 1998

FROM CONFIDENTIAL

RECEIVED

KANSAS CORPORATION COMMISSION

MAY 07 1996

CONSERVATION DIVISION
WICHITA, KS

CUSTOMER



CHANGE TO
ANADARKO PETROLEUM CORPORATION
 ADDRESS
 CITY STATE ZIP CODE

DUNCAN COPY

TICKET

No. **921154 - 3**

PAGE 1 OF 2

1. SERVICE LOCATION LIBERAL	WELL/PROJECT NO C# 3	LEASE TRAY	COUNTY/PARISH HASKELL	STATE KS	CITY/OFFSHORE LOCATION	DATE 2/19/96	OWNER SAME
2. HUBERTON	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR NOSEMAN DEL	RIG NAME/NO. # 1	SHIPPED OT	DELIVERED TO LOCATION	ORDER NO.
3.	<input type="checkbox"/> SALES						
4. REFERRAL LOCATION FROM CONFIDENTIAL	WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 010	WELL PERMIT NO.	WELL LOCATION		
	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC ACCT OF	DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
				U/M	U/M		
000-1170			MILEAGE 52276-7848	100	TRK	2.35	235-
000-119			MILEAGE 94026	100	M	1.50	150-
001-016			CASINGS 1003	1	RAFT		1320-
030-01							
12A	825 217		GUIDE SHOE	1	FA 8 7/8 IN	210	210-
24A	815 19508		INSERT FLOAT VALVE	1	FA 8 7/8 IN	195	195-
27	815 19414		FILL UP ASSY	1	FA 8 7/8 IN	64	64-
41	806 161048		CASING CENTRALIZER	5	FA 8 7/8 IN	61	305-
320	806 71460		CEMENT BASKET	1	FA 8 7/8 IN	124	124-
350	890 10802		WELD R	1	#	16.75	16.75-

RECEIVED
 CONSERVATION DIVISION
 WICHITA, KS
 MAY 07 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

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	2675.75
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					FROM CONTINUATION PAGE(S)	10313.86
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	
		<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND						

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) **O. J. Stuck** x CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) **O. J. Stuck** HALLIBURTON OPERATOR/ENGINEER **B. BENJAMIN** EMP # **47408** HALLIBURTON APPROVAL



HALLIBURTON

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 921154

HALLIBURTON ENERGY SERVICES

DM

CUSTOMER APC	WELL Ray C	DATE 2-9-96	PAGE OF 2 2
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FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	WELL		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M		
504-282					Mideon Premium Plus	340	skcs	16.76	5698.40
507-285	70.15250								
508-127	516.00335								
504-050	516.00265				Premium Plus Cement	160	skcs	12.62	2019.20
509-406	890.00812				Calcium Chloride 3% w/340 mideon 2% w/160 prem plus	13	skcs	36.75	477.75
507-210	890.50071				Flocele 1/4# w/all	125	#	1.65	206.25
<p>FROM CONFIDENTIAL</p> <p>RELEASED SEP 16 1998</p> <p>RECEIVED MAY 07 1996 KANSAS CORPORATION COMMISSION CONSERVATION DIVISION WICHITA KS</p> <p>ORIGINAL</p>									
500-207					SERVICE CHARGE		CUBIC FEET	1.35	743.85
500-306					MILEAGE CHARGE	TOTAL WEIGHT 49411	LOADED MILES 37	TON MILES 914.11	868.41

No. B 219737

CONTINUATION TOTAL

10313.86



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Mid Continent
Liberal KS

KCC
BILLED ON TICKET NO. 919669

CUSTOMER H.L.C.
LEASE DMY C.
WELL NO. C
JOB TYPE 255
DATE 2-17-96

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 _____ 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	KB	5590	
LINER						
TUBING						
OPEN HOLE	ORIGINAL					SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>insert/FU 5 1/2</u>	1	
<u>Baker F.O.</u>	1	
GUIDE SHOE <u>Reg</u>	1	
CENTRALIZERS <u>Reg</u>	18	
BOTTOM PLUG		
TOP PLUG <u>sw</u>	1	
HEAD <u>P.C</u>	1	
PACKER <u>Bracket</u>	1	
OTHER <u>weld A</u>	1	

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-17-96</u> TIME <u>1030</u>	DATE <u>2-17-96</u> TIME <u>0250</u>	DATE <u>2-17-96</u> TIME <u>2000</u>	DATE <u>2-17-96</u> TIME <u>2:00</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
RELEASED		
SEP 16 1998		
FROM CONFIDENTIAL		

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. _____
GELLING AGENT TYPE _____ GAL. _____
FRIC. RED. AGENT TYPE _____ GAL.-LB. _____
BREAKER TYPE _____ GAL.-LB. _____
BLOCKING AGENT TYPE _____ QTY. _____
OTHER _____ CONSERVATION DIVISION WICHITA, KS

DEPARTMENT Cement 500
DESCRIPTION OF JOB Reip. F.O. Long string
JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
CUSTOMER REPRESENTATIVE X O. J. Stuck
HALLIBURTON OPERATOR Tom Poyer COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	140	Pt Midcon 222		B	2% cc, 1/4% sk Floccle	2.01	12.8
	135	Prim Versasol		B	1.6% Halad-322, 5% KCL, 9% Versasol, 1/4% sk Floccle	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 32 REASON Shoe Joint

SUMMARY

VOLUMES

PRESLUSH (BBL) GAL. 8 + 10 + 2 TYPE H₂O, Superfluid, H₂O
LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
TREATMENT: BBL.-GAL. _____ DISPL (BBL) GAL. 133
CEMENT SLURRY (BBL) GAL. 50 + 34
TOTAL VOLUME: BBL.-GAL. _____

REMARKS

M.S.D.S left in Rig

CUSTOMER APC WELL NO. 3 LEASE Ray C JOB TYPE 035 TICKET NO. 919669

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1030							Called out - From Rollz - Requested "now"
	1450							On loc. - Rig - up csg crew
	1505							Run csg 5 1/2" Baker F.O.
	1859							On Bottom
	1900							Hook-up to cisc.
	1914							Cisc. broke
								Hook-up to cmt
	2000	0-2 1/2	8				10/250	Pump H ₂ O
	2003	2 1/2	10				250	Pump Super flush
	2007	2 1/2	8				150	Pump H ₂ O
	2010	2 1/2-0					100%	Shut down - cmt hose pack off
	2016	0-6	41				10/250	Pump lead
	2022	6	34				200	Pump tail
	2028	6-0					250%	Shut down - Drop plug - washup tub.
	2033	0-6	132				10/900	Pump Displ.
	2053	6-2					900/250	Reduce Rate @ 125 bbl-in
	2100	2-0					900/1200	Plug Down @ 133 bbl-in
	2101						1200%	Release Press. - Float held
								Release From loc.
								Thank you!
								Tom & Sonny & CREW
								25 stks left for Ret & mouse

RELEASED SEP 16 1998 FROM CONFIDENTIAL

RECEIVED KANSAS CORPORATION COMMISSION MAY 07 1996 CONSERVATION DIVISION WICHITA, KS



CHARGE TO: **ANADARKO PET**
 ADDRESS:
 CITY, STATE, ZIP CODE:

DUNCAN COPY

TICKET

No. **919669 - 3**

PAGE 1 OF 2

HAL-1906-N

SERVICE LOCATIONS 1. 25540	WELL/PROJECT NO. #3	LEASE RAY C	COUNTY/PARISH Haskell Co	STATE Ks	CITY/OFFSHORE LOCATION SATANA	DATE 2-17-96	OWNER
2. 25535	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR NORSEMAN	RIG NAME/NO. #1	SHIPPED VIA HES	DELIVERED TO WELLSITE	ORDER NO.
3.	WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 035	WELL PERMIT NO. AP1508 1210 0000 00	WELL LOCATION LAND (21, 29, 34W)		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117	ORIGINAL	1			MILEAGE	EA	mi	84	mi	2.85	239.40
000-119		1			CRW mileage	EA	mi	84	mi	1.50	126.00
001-016		1			Pump Charge	6 hrs		5590	ft		2000
030-016		1			Top plug SW	1 EA		5 1/2	in		60.00
018-315		1			Super flush	10 EA		EA	SK	100.00	1000.00
12A		825.205	1		Guide Shoe	1 EA		5 1/2	in		121.00
24A		815.19251	1		Float insert	1 EA		5 1/2	in		110.00
27	815.19311	1		Fill-up key	1 EA		5 1/2	in		69.00	
40	806.60022	1		Centralizer	18 EA		5 1/2	in	60.00	1080.00	
320	806.71430	1		Cement Bracket	1 EA		5 1/2	in		104.00	
350	890.10802	1		Weld A	1 EA		1	1/8		16.95	

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

X *O.J. Stuck*
 DATE SIGNED: _____ TIME SIGNED: _____
 A.M. P.M.

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: _____
 AGREE UN-DECIDED DIS-AGREE

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	4926.15
FROM CONTINUATION PAGE(S)	5-995-41
	10921.56
	11.521.56
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) O.J. Stuck	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X O.J. Stuck	HALLIBURTON OPERATOR/ENGINEER Tom Poyce	EMP # 48120	HALLIBURTON APPROVAL 210103
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HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 919669

FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	WELL		DATE	PAGE	OF
		LOC	ACCT	DF		Qty.	U/M			
504-282					Midcon Premium Plus	140	sks			
507-285	70.15250									
508-127	516.00335									
509-043	516.00272				Premium Cement	135	sks			
509-406	890.50812				Calcium Chloride 2% w/140 midcon	3	sks			
507-210	890.50071				Flocele 1/4# w/all	69	#			
507-775	516.00144				Halad-322 6/10% w/135 prem versaset	76	#			
508-002	70.15302				Potassium Chloride 5% w/135 prem vers	386	#			
508-095	516.00789				Versaset 9/10% w/135	114	#			
<p>RELEASED SEP 16 1998 FROM CONFIDENTIAL</p> <p>RECEIVED KANSAS CORPORATION COMMISSION MAY 07 1996 CONSERVATION DIVISION WICHITA, KS</p>										
500-207					SERVICE CHARGE	CUBIC FEET				
500-306					MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES			
						35		293	1.35	395.55
						476.56		.95		452.74

No. B 219807

CONTINUATION TOTAL 5995.41



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

BILLED ON TICKET NO. **719772**

REC

WELL DATA

FIELD _____ SEC. 21 TWP. 27S RNG. 4W COUNTY WASKIEN 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 PISTON SET AT 3168'

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC DATA _____ TOTAL DEPTH _____

JOB DATA

NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	1	155	5/8		
LINER					
TUBING	1	4.7	2 3/8	KB	5540
OPEN HOLE					SHOTS/FT.
PERFORATIONS					
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 _____ GAL. _____ % _____

SURFACTANT TYPE _____ GAL. _____ IN.

NE AGENT TYPE _____ GAL. _____ IN.

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN.

GELLING AGENT TYPE _____ GAL. _____ IN.

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN.

BREAKER TYPE _____ GAL.-LB. _____ IN.

BLOCKING AGENT TYPE _____ GAL.-LB. _____ IN.

PERFPAC BALLS TYPE _____ GAL.-LB. _____ IN.

OTHER _____

OTHER _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
J. Woodrow		
D. McLANE		
J. FROST		
M. [unclear]		

DEPARTMENT CEMENT

DESCRIPTION OF JOB CEMENT FOR PUMP DOWN TEG

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X O J S [unclear]

HALLIBURTON OPERATOR J J Woodrow COPIES REQUESTED _____

CONSERVATION DIVISION WICHITA, KS

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	60	PP midcal	Waco	B	3.66 1/4 [unclear]	3.22	11.1

PRESSURES IN PSI

SUMMARY

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 _____

PREFLUSH: BBL.-GAL. _____ TYPE _____

LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____

TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 12.2

CEMENT SLURRY (BBL) 34

TOTAL VOLUME: BBL.-GAL. _____

REMARKS _____

FROM CONFIDENTIAL VOLUMES

CUSTOMER: Alphateo Petroleum
LEASE: Ray C
WELL NO.: 3
JOB TYPE: Summary for [unclear]
DATE: 2-20-96



JOB LOG HAL-2013-C

DATE 2-20-98 PAGE NO. 1

CUSTOMER ANADIPRO PET WELL NO. 3 LEASE RAY C JOB TYPE RECEMENT FO TOOL TICKET NO. 919772

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1100							JOB READY
	0730							CALLED OUT FOR JOB
	1020							PUMP TRUCK ON LOCATION -
	1100							START RUNNING 2 3/4 TAG IN HOLE
	1215							LOCATE PORT COLLAR AT 3185'
	1225					1500	1500	PRESSURE TEST - HOLDING
								OPEN PORT COLLAR
	1234	3.0				500		TAKE INJECTION RATE - ESTABLISH
			20.0					CIRCULATION - pump 20 BBL 28 KGS WATER
	1240	3.5	34.0			500		PAK 60 SKS MID GUN AT 11.1 @/min
	1246	3.5				500		START DISPENSING
								LEAVE 1 BBL GMT ON TOP
	1250		11.5					SHUT DOWN - CLOSE PORT COLLAR
	1255					1500	1500	PRESSURE TEST -
								RUN 2 SFs IN
	1308		20.0			500		REVERSE OUT -
								GOT 3 BBL GMT BACK
	1315							RUN REST OF TAG TO BOTTOM 5540'
								HOOK UP TO TAG
	1410	1.0	6.0					pump 250 GAL ACID AT 14PM
	1430	1.0						REVERSE BACK OUT
	1455							JOB COMPLETE
								THANK YOU!
								CALL AGAIN
								WOODY & CREW
								RELEASED
								SEP 16 1998
								FROM CONFIDENTIAL
								RECEIVED
								KANSAS CORPORATION COMMISSION
								MAY 07 1998
								CONSERVATION DIVISION
								WICHITA, KS

FIELD OFFICE



HALLIBURTON ENERGY SERVICES

HAL-1906-N

CHARGE TO: ANADARKO PETROLEUM
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

DUNCAN COPY

TICKET

No.

919772 - 7

PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>025540 L. BURN</u>	WELL/PROJECT NO. <u>3</u>	LEASE <u>RAY C</u>	COUNTY/PARISH <u>HASKELL</u>	STATE <u>KS</u>	CITY/OFFSHORE LOCATION <u>N. SARANTA</u>	DATE <u>2-20-96</u>	OWNER <u>S. MOFF</u>
2. <u>025535 HUGOTON</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>BRUCE WELL SER</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>WELL SITE</u>	ORDER NO.
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS <u>01-014 01-DEVELOPMENT 205-RECEMENT FO TOOL</u>					

PRICE REFERENCE	SECONDARY REFERENCE/PART-NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
000-117		1		MILEAGE	40	mi	2	KA	2.85	228.00
000-119		1		RAMP MILEAGE	40	mi	2	KA	1.50	120.00
001-019		1		Pump CHARGE	3168	FT			1590.00	1590.00
300-132		1		Body Load Dump TRUCK	40	mi	2	KA	1.80	120.00
201-004		1		HCL Acid	250	GAL			1.02	255.00
210-011		1		HAI-81 M	1	GAL			39.00	39.00

ORIGINAL

RECEIVED
KANSAS CORPORATION COMMISSION
MAY 07 1996
CONSERVATION DIVISION
WICHITA, KS

RELEASED
SEP 16 1998
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

<input checked="" type="checkbox"/> DATE SIGNED <input type="checkbox"/> TIME SIGNED <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	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 <u>2352 50</u> FROM CONTINUATION PAGE(S) <u>1289 20</u> SUB-TOTAL <u>3641 20</u> APPLICABLE TAXES WILL BE ADDED ON INVOICE
	TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
	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?					
DATE SIGNED	TIME SIGNED	TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				
<input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered				<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

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>O. J. Stuck</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>X O. J. Stuck</u>	HALLIBURTON OPERATOR/ENGINEER <u>J. Woodman</u>	EMP # <u>62573</u>	HALLIBURTON APPROVAL
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HALLIBURTON

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 919772

HALLIBURTON ENERGY SERVICES

FORM 1911 R-10

CUSTOMER: Aradeco Petroleum Corporation; WELL: Ray "C" #3; DATE: 02-20-96; PAGE: 1 OF 1

Table with columns: PRICE REFERENCE, SECONDARY REFERENCE/PART NUMBER, ACCOUNTING (LOC, ACCT, DF), DESCRIPTION, QTY., U/M, UNIT PRICE, AMOUNT. Includes items like Midcon Premium Plus Cement, Flocele, and Calcium Chloride.

ORIGINAL

RECEIVED KANSAS CORPORATION COMMISSION MAY 07 1998 CONSERVATION DIVISION WICAITA, KS

RELEASED SEP 16 1998

FROM CONFIDENTIAL

Summary rows for 500-207 (SERVICE CHARGE) and 500-306 (MILEAGE CHARGE) with associated weights and miles.

No. B 219815

CONTINUATION TOTAL 1284.20