

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 TRADING COMPANY

Operator Contact Person: J. L. ASHTON

Phone (316) 624-6253

Contractor: Name: BIG "A" DRILLING

License: 31572

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: _____

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. _____

10-17-95 10-23-95 12-21-95
Spud Date Date Reached TD Completion Date

API NO. 15- 129-21403

00-00 ORIGINAL

County MORTON

NE - NE - SW - NW Sec. 8 Twp. 33 Rge. 41

1450 Feet from (circle one) Line of Section

1250 Feet from (circle one) Line of Section

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

Lease Name ARNOLD "C" Well # 1

Field Name DUNKLE

Producing Formation WABAUNSEE

Elevation: Ground 3408.1 KB --

Total Depth 3020 PBDT 2956

Amount of Surface Pipe Set and Cemented at 578 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 ACT 1 5-8-96 JK
(Data must be collected from the Reserve Pit)

Chloride content 2200 ppm Fluid volume 400 bbls

Dewatering method used NATURAL EVAPORATION

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

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

County _____ Docket No. _____

RELEASED
MAR 11 1997

FROM CONFIDENTIAL

JAN 8
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

Title DIVISION DRILLING ENGINEER Date 1/8/96

Subscribed and sworn to before me this 8th day of January 1996.

Notary Public L. Marc Harvey

Date Commission Expires _____

L. MARG HARVEY
Notary Public - State of Kansas
My Appt. Expires 6-12-99

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)

Form ACO-1 (7-91) RECEIVED
STATE CORPORATION COMMISSION
1-10-1996
JAN 10 1996
CONSERVATION DIVISION
Wichita, Kansas

SIDE TWO

CONFIDENTIAL

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name ARNOLD "C" Well # 1

Sec. 8 Twp. 33 Rge. 41 East West County MORTON

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: CNL-LDT, DIL, ML, MSFL, NGR, CBL-CCL-GR.

Name	Formation (Top), Depth and Datums	
	Top	Datum
BLAINE	959	
GLORIETTA	1085	
B/CIMARRON ANHY.	1468	
WELLINGTON ANHY.	1908	
KRIDER DOLO.	2163	
WINFIELD SS.	2210	
FT. RILEY	2330	
COUNCIL GROVE	2432	
WABAUNSEE	2862	

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	12.25	8.625	24	578	MIDCON 2/ PREM PLUS	80/120	NONE/2%CC.
PRODUCTION	7.875	5.5	15.5	3009	MIDCON 2	75/210	2%CC/2%CC, .6% HALAD 322

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
4	2904-2914	NONE Acidized w/ 1000 gal 7 1/2% HCL	

TUBING RECORD	Size 2-3/8"	Set At 2945	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
---------------	-------------	-------------	-----------	-------------------------------------------------------------------------------

Date of First, Resumed Production, SWD or Inj. 12-14-95 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas 389 Mcf	Water 10 Bbls.	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 2904-2914

RECEIVED
KANSAS CORPORATION COMMISSION

JUN 28 1996

CONSERVATION DIVISION
WICHITA, KS

Table 1

BASIC ROCK PROPERTIES

Anadarko Petroleum Corporation
Arnold C-1 Well
Morton County, Kansas
SRS 2068/RSR 3266

Core No.1
Depth Interval: 1950.0 - 1996.5 ft.

Sample	Depth (ft.)	Porosity (%BV)	Permeability to gas (md)	Grain Density (g/cc)	Bulk Density (g/cc)	Lithological Description
H 171	1957.4	5.6	0.005	2.72	2.57	Sst buff vf gr vwl consol sltly
H 261	1957.8	8.4	0.137	2.70	2.47	Sst buff vf gr vwl consol slty thn gry sh lams
H 172	1958.3	12.2	0.053	2.71	2.38	Sst buff-lt gry vf gr vwl consol thn gry sh lams
H 262	1959.2	4.5	0.017	2.71	2.59	Sst buff vf gr vwl consol gry sh incl
H 173	1959.7	2.8	0.011	2.74	2.66	Sst buff vf gr vwl consol slty
H 257#	1960.0	3.1	0.027	2.73	2.65	Sst buff vf gr vwl consol slty
H 174	1960.5	4.2	0.006	2.74	2.62	Sst buff vf gr vwl consol slty
H 175	1962.6	14.1	3.19*	2.72	2.34	Sst lt gry-gry vf gr vwl consol slty thn gry sh lams
H 258#	1963.4	11.1	0.185	2.71	2.41	Sst mott lt gry-rd bm vf gr vslty anhy incl
H 176	1963.6	12.3	0.140	2.75	2.41	Sst mott lt gry-rd bm vf gr vslty red slt lam lge anhy incl
H 177	1964.4	15.7	0.308*	2.72	2.29	Sst lt gry-red bm vf gr vwl consol vslty rd slt & gry sh lam
H 178	1965.1	16.5	**	2.71	2.26	mott Sst & Slst vf gr vwl consol vslty varg
H 179	1966.7	10.9	0.261*	2.74	2.44	Sst lt brn vf gr vwl consol slty thn gry sh lam anhy incl
H 259#	1966.8	14.6	1.45	2.68	2.29	Sst lt gry vf gr wl consol vslty thn gry sh lams
H 180	1967.3	6.8	0.018	2.73	2.54	Sst buff vf gr vwl consol slty
H 181	1968.3	6.2	0.007	2.74	2.57	Sst buff vf gr vwl consol slty
H 182	1969.5	8.3	0.132	2.70	2.48	Sst buff vf gr vwl consol slty
H 183	1975.7	15.9	**	2.72	2.29	Sst mott gry-brn vf gr vslty lge sh strks
H 184	1981.4	15.7	0.789*	2.70	2.28	Sst lt gry vf gr vwl consol vslty thn gry sh lams
H 185	1982.2	14.3	**	2.71	2.32	Sst lt gry vf gr vwl consol vslty thn gry sh lams
H 186	1986.5	4.1	0.002	2.73	2.62	Sst lt brn vf-f gr vwl consol arg
H 260#	1986.7	5.0	0.061	2.72	2.58	Sst lt gry vf gr vwl consol slty
H 187	1987.4	17.7	**	2.73	2.25	Sst mott lt gry-lt brn-rd brn vf gr vslty 30% rd sh gry sh lams
H 188	1988.3	15.7	**	2.69	2.27	Sst lt brn vf gr vslty thn gry sh strks thk rd sh strks

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1 14 1997

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Table 1 (continued)

BASIC ROCK PROPERTIES

Anadarko Petroleum Corporation
 Arnold C-1 Well
 Morton County, Kansas
 SRS 2068/RSR 3266

Core No.1
 Depth Interval: 1950.0 - 1996.5 ft.

<u>Sample</u>	<u>Depth (ft.)</u>	<u>Porosity (%BV)</u>	<u>Permeability to gas (md)</u>	<u>Grain Density (g/cc)</u>	<u>Bulk Density (g/cc)</u>	<u>Lithological Description</u>
H 189	1989.1	8.4	5.33*	2.70	2.47	Sst lt brn vf gr vwl consol slty thn gry sh lams
H 190	1990.2	18.7	**	2.75	2.24	Sst lt gry vf gr vwl consol vsity varg anhy incl
H 191	1992.4	19.0	**	2.73	2.21	Sst lt gry vf gr vwl consol vsity varg gry sh strks
H 192	1993.7	12.9	0.220*	2.69	2.34	Sst lt gry vf gr vwl consol Slty arg thn gry sh lams
H 193	1995.7	0.5	0.003	2.95	2.94	Anhy gry dns rd sh incl

Denotes 1" diameter sample.

* Denotes sample contains fracture, permeability to gas may be anomalously high.

** Denotes broken and/or non-cylindrical sample. Permeability to gas indeterminable.

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Table 2

BASIC ROCK PROPERTIES

Anadarko Petroleum Corporation
 Arnold C-1 Well
 Morton County, Kansas
 SRS 2068/RSH 3266

Core No.2

Depth Interval: 2010.0 - 2059.7 ft.

<u>Sample</u>	<u>Depth (ft.)</u>	<u>Porosity (%BV)</u>	<u>Permeability to gas (md)</u>	<u>Grain Density (g/cc)</u>	<u>Bulk Density (g/cc)</u>	<u>Lithological Description</u>
H 194	2012.7	8.0	0.505	2.80	2.58	Sltst rd brn vwl consol sli sdy arg abd anhy incl
H 195	2020.3	13.5	**	2.74	2.37	Sst lt gry-rd brn vf gr vllty arg gry sh lams rd sh strks
H 196	2031.7	18.5	**	2.67	2.18	Sltst lt gry wl consol sdy arg
H 197	2032.3	15.4	**	2.72	2.30	Sltst lt gry wl consol sdy arg lge anhy incl
H 255#	2035.4	9.4	0.098	2.71	2.46	Sst lt gry vf gr vwl consol slty anhy
H 198	2035.7	6.2	< 0.001	2.73	2.56	Sst lt brn vf-f gr vwl consol anhy incl
H 199	2036.1	5.0	0.003	2.74	2.60	Sst lt brn vf-f gr vwl consol
H 256#	2040.2	15.9	0.198	2.68	2.25	Sst lt gry vf gr vwl consol slty
H 200	2040.7	2.8	0.002	2.85	2.77	Sst lt gry vf gr vwl consol abd anhy
H 201	2041.4	14.8	0.044	2.71	2.31	Sltst buff vwl consol sli sdy cln
H 202	2043.6	17.1	0.331	2.68	2.22	Sltst buff vwl consol sli sdy cln
H 203	2047.7	15.0	0.051	2.70	2.30	Sltst buff vwl consol sdy tr anhy incl
H 204	2048.7	14.3	0.038	2.71	2.32	Sst lt gry vf gr vwl consol slty thn gry sh strks
H 205	2049.1	13.4	0.307*	2.71	2.35	Sst lt gry vf gr vslty varg abd rd sltst
H 206	2050.2	14.1	0.111	2.70	2.32	Sst lt gry vf gr vslty arg thn gry sh strks
H 207	2056.7	12.0	0.018	2.69	2.37	Sst lt gry vf-f gr vwl consol sli arg
H 208	2057.5	10.0	0.126	2.70	2.43	Sst lt gry vf gr vwl consol thn gry sh lams
H 209	2058.4	14.0	**	2.74	2.36	Sst mott gry-brn vf-f gr vslty varg sh cl strks anhy

Denotes 1" diameter sample.

* Denotes sample contains fracture, permeability to gas may be anomalously high.

** Denotes broken and/or non-cylindrical sample. Permeability to gas indeterminable.

ORIGINAL

FROM CONFIDENTIAL

MAR 11 1997

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HALLIBURTON

JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

MIO CONIFER
Liberal

HCC
BILLED ON TICKET NO. 811524

WELL DATA

FIELD _____ SEC 8 TWP. 33S RNG. 41W COUNTY Morton 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	W	24	8 5/8	KB	580'	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 10-19-95	DATE 10-18-95	DATE 10-18-95	DATE 10-18-95
TIME 0400	TIME 0730	TIME 0900	TIME 0935

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>INSERT 4" Fill</u>	1	
FLOAT SHOE		
GUIDE SHOE <u>Tex Pat</u>	1	
CENTRALIZERS	3	
BOTTOM PLUG		
TOP PLUG	1	
HEAD <u>OCPC</u>		
PACKER <u>Basket</u>	1	
OTHER <u>weld A</u>	1	

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
R Crist	420041	
D7653		
R E Wood	7131	
D4360	52938	
S Adair	50868	
G3813	7649	

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. °API
 DISPL. FLUID _____ DENSITY _____ LB/GAL. °API
 PROP. TYPE _____ SIZE _____
 PROP. TYPE _____ SIZE _____ LB.
 ACID TYPE _____ GAL. _____
 ACID TYPE _____ GAL. _____
 ACID TYPE _____ GAL. _____
 SURFACTANT TYPE _____ GAL. _____
 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 _____

RELEASED
MAR 11 1997

CONFIDENTIAL

FROM CONFIDENTIAL

DEPARTMENT 5001 JAN 8
 DESCRIPTION OF JOB OIO CONFIDENTIAL
 JOB DONE THRU TUBING CASING ANNULUS TBG./ANN
 CUSTOMER REPRESENTATIVE [Signature]
 HALLIBURTON OPERATOR Don Crist COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU FT 'SK	MIXED LBS GAL
<u>1810</u>		<u>midcon</u>		<u>B</u>	<u>2% cc 1/4" Flo</u>	<u>3.22</u>	<u>11.1</u>
<u>1820</u>		<u>C</u>		<u>B</u>	<u>2% cc 1/4" Flo</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. _____
 SHUT-IN INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY BBL.-GAL. 45 L & STAG
 HYDRAULIC HORSEPOWER _____ PREPARATION COMMISSION
 ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME BBL.-GAL. _____
 AVERAGE RATES IN BPM _____

REMARKS SN 1 0 1994

CONSERVATION DIVISION
Wichita, Kansas

TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 42 REASON Shoe Joint

JOB LOG HAL-2013-C

 CUSTOMER **Awadavko** WELL NO. **1** LEASE **Arnold C** JOB TYPE **010** TICKET NO. **811524**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0700							called out
	0730							on location pulling collars
	0800							Run casing
	0840							hook to circulate
	0900							hook to cement
	0903						0-100	start lead cement 11.1 #/g
	0912	5	45				100	lead cement pumped start tail cement 14.8
	0918	5	28				0	tail cement pumped shutdown
	0919		25				0-100	start disp
	0925	4	25				100	slow rate
	0930	2	10				100-450	bump plug float held
CONFIDENTIAL								
NLU								
JAN 8								
CONFIDENTIAL								
Thanks For calling Halliburton Energy Serv Ron, Robert & John								
on loc 1hr 33min								
Pump Time 27min								
RELEASED								
MAR 11 1997								
FROM CONFIDENTIAL								



HALLIBURTON ENERGY SERVICES

HAL-1906-N

GENERAL TO: *...*
 ADDRESS: *...*
 CITY, STATE, ZIP CODE: *...*

TICKET No. 8115PA - X

SERVICE LOCATIONS: 1. *Liberal 00117*
 2. *Hayden 00116*
 3. *...*
 4. *...*

WELL PROJECT NO: *1*
 LEASE: *Arnold "C"*
 COUNTY/PARISH: *Martin*
 STATE: *KY*
 CITY OFF SHORE LOCATION: *...*
 DATE: *10-1-97*

TICKET TYPE: SERVICE SALES
 NITROGEN JOB? YES NO
 CONTRACTOR: *Big A Drilling*
 RIG NAME/NO.: *1*
 SHIPPED VIA: *...*
 DELIVERED TO: *...*
 ORDER NO.: *...*

WELL TYPE: *07*
 WELL CATEGORY: *07*
 JOB PURPOSE: *010*
 WELL PERMITTED: *...*
 WELL LOCATION: *...*

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					MILEAGE	2.0					2.00
001-016					Pump Charge	1.0	BT	6.6			6.60
16A	830.2171				Guide Shoe Top Rot	8.0					8.00
24A	915.19502				Fluent	2.0					2.00
27	917.17415				Fill Assy			1.5			1.50
40	906.61048				Control Valve	1.0					1.00
370	911.71001				Basket	1.0					1.00
340	909.10000				weld #						
030-018					Top 41.4						

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MAR 11 1997

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.

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

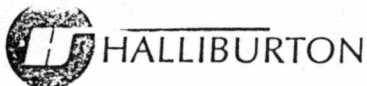
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	5586	83
FROM CONTINUATION PAGE(S)		
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): *Sam ...*
 CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): *X Sam ...*
 HALLIBURTON OPERATOR/ENGINEER: *...*
 EMP #: *...*
 HALLIBURTON APPROVAL: *...*



TICKET CONTINUATION

DUNCAN COPY

Ticket No.

HALLIBURTON ENERGY SERVICES

CUSTOMER Anadarko Petroleum Corp.

WELL Area #

DATE 10 10 95

FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-050	516.00265				Premium Plus Cement	100	sk			15.98	1600.00
504-282					Midcon Premium Plus Cement	30	sk			16.60	500.00
507-285	70.15250					150	lb				
516.00335	508-127					2	sk				
507-210	800.50071				Floccle 1/4N/ 200	50	lb			1.65	82.50
509-406	800.50312				Calcium Chloride 2N/ 200	4	sk			39.75	159.00
CONFIDENTIAL											
ORIGINAL											
CONFIDENTIAL											
RELEASED											
MAR 1 1 1997											
FROM CONFIDENTIAL											
					SERVICE CHARGE			CUBIC FEET			
500-207								215		1.25	268.75
500-306					MILEAGE CHARGE	TOTAL WEIGHT 19470	LOADED MILES 40	TON MILES 309.4		1.95	603.33

No. B 211866

CONTINUATION TOTAL



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Mid Cont.
Liberal, Ks

KCC
BILLED ON TICKET NO. 880606

CUSTOMER

Auraco Petro. Corp. LEASE

Auraco 'C'

WELL NO.

1 #

JOB TYPE

5 1/2" Prod. String

DATE

10-24-95

WELL DATA

FIELD _____ SEC. 8 TWP. 33^S RING. 41^W COUNTY. Moreton 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			5 1/2"	K13	3009'	
LINER						
TUBING						
OPEN HOLE			7 3/4"			SHOTS/FT.
PERFORATIONS			ORIGINAL			
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-24</u>	DATE <u>10-24</u>	DATE <u>10-24</u>	DATE <u>10-24</u>
TIME <u>1000</u>	TIME <u>1345</u>	TIME <u>1620</u>	TIME <u>1745</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. Coe</u>	<u>420041</u>	<u>Liberal Ks</u>
<u>P. Elwood</u>	<u>5917A</u>	<u>"</u>
<u>D. Coe</u>	<u>04360</u>	<u>"</u>
<u>D. Coe</u>	<u>3625 / 75237</u>	<u>Moreton Ks</u>

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JAN 8
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DEPARTMENT Cement
DESCRIPTION OF JOB 5 1/2" Prod. String
JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
CUSTOMER REPRESENTATIVE X John Sheen
HALLIBURTON OPERATOR Dennis Coe COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>75</u>	<u>Mudcow 2</u>			<u>2% CC</u>	<u>3.22</u>	<u>11.1</u>
	<u>210</u>	<u>Mudcow 2</u>			<u>2% CC 1/10% Hoked</u>	<u>2.01</u>	<u>12.8</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 444 REASON Shoe string

SUMMARY

PRESLUSH: BBL. 10⁰³ / 20⁰³ / ME TYPE 10⁰³ / 20⁰³ / ME
LOAD & BKDN: BBL. -GAL. _____ PAD: BBL. -GAL. _____
TREATMENT: BBL. -GAL. _____ DISPL: BBL. -GAL. 71.0
CEMENT SLURRY: BBL. -GAL. 118.18
TOTAL VOLUME: BBL. -GAL. _____

REMARKS

JOB LOG HAL-2013-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Anadarko Petro		1 #		Arawaho		5 1/2 Production Stage		880606	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	1000								Time called FROM A LOC. E OF Merle K.
	1300								Time Ready
	1345								Time on loc.
	1445								START Pumping Casing
	1620								Casing in Hole
	1621								Hookup To Circulate Casing
	1630								Circulate Casing w/ Rec. Pump.
	1631								Circulate Mud To Ground Level
	1650								Hookup To Pump Truck
	1655		10			350			START 2% KCl Aherd
	1657		20			350			START Mud Flush
	1701		10			350			START 2% KCl Behind.
	1703	6.2				300			START Mixing Cement
	1710		43.01			150			START Tail Cement
	1726		75.17			200			Finish Mixing Cement
	1729		118.18		TOTAL	200			Shot Down
	1729	6							wash Pumps & Lines
	1745	4.4	71						START Displacement
						800			Plug Down
									Float Held & Circulate
									Flush them out do
									Thanks For Calling Halliburton Energy
									Dennis Cook + Crew
	14 ON loc.								
	1.25 JOB								

RELEASED

MAR 11 1997

FROM CONFIDENTIAL

JAN 8

CONFIDENTIAL

Deep Plug



HALLIBURTON

HALLIBURTON ENERGY SERVICES

HAL-1906-N

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

DUNCAN COPY

TICKET

No.

880606 - 1

WR

PAGE 1 OF 1

SERVICE LOCATIONS 1. <i>Liscol-Ks 25940</i> 2. <i>Hogton-Ks 25535</i>	WELL/PROJECT NO. 1#	LEASE <i>Aradd 'C'</i>	COUNTY/PARISH <i>Moeton</i>	STATE <i>Ks</i>	CITY/OFFSHORE LOCATION	DATE <i>10-24-95</i>	OWNER <i>Anadarko Petco</i>
TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <i>Big A Drilling</i>	RIG NAME/NO. <i>035 5/25 Prod. in String</i>	SHIPPED VIA	DELIVERED TO <i>Loc</i>	ORDER NO.	WELL LOCATION <i>SW of Richfield K</i>
WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	RECEIVED			
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING	DESCRIPTION	QTY.	UM	UNIT PRICE	AMOUNT
000-117		1	MILEAGE	1146	Miles	2.85	416.10
001-016		1	Pump charge	30	FT		1500
030-016		1	5w Top Aug.	1	1/2"	60.18	60.18
12-A	825-205	1	Guide Shoe	1	5/8"	121.18	121.18
24-A	815-19251	1	Luxerel Float	1		110.18	110.18
27	815-19311	1	Fillup	1		69.18	69.18
40	806-60022	1	Centralizers	20		60.18	1200.18
018-315		1	Mud Flush	840	gal	.65	546.18
314-163		1	Choke II	2	gal	28.18	56.18

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: *10-24-95* 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?
 YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	4078
FROM CONTINUATION PAGE(S)	6651
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): *John Skilling* CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): *John Skilling*

HALLIBURTON OPERATOR/ENGINEER: *Dennis Lane* EMP # *59179* HALLIBURTON APPROVAL: _____

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TICKET CONTINUATION

DUNCAN COPY

Om

TICKET No. 880606

HALLIBURTON ENERGY SERVICES

CUSTOMER *APC* WELL *ARMWD #1* DATE *10 24 95* PAGE 2 OF 4

FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACGT	DF		QTY.	U/M	QTY.	U/M			
504-282					MIDCON 2	285	SKS			16 39	4671	15
507-285	10.15250											
508-127	516.00335											
509-406	B90, 50B12				Calcium chloride 29% w/all	5	SKS			36 75	183	75
507-775	516.00144				HALAD 322 6/10% w/210 MIDCON	118	#			7 00	826	00
RELEASED		MAR 11 1997			FROM CONFIDENTIAL		ORIGINAL		CONFIDENTIAL		CONFIDENTIAL	
SERVICE CHARGE					CUBIC FEET			309				
500-207						MILEAGE CHARGE		TOTAL WEIGHT		LOADED MILES		
510-306						28	409	41	582.39	1 35	417	15

CONTINUATION TOTAL 6651.32

No. B 209991