

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

ORIGINAL

Operator: License # 5952

Name: Amoco Production Company

Address PO Box 800 Room 924

City/State/Zip Denver, CO 80201

Purchaser: Williams Natural Gas

Operator Contact Person: Susan R. Potts

Phone (303) 830-5323

Contractor: Name: Cheyenne Drilling

License: 5382

Wellsite Geologist: Ken LeBlanc

Designate Type of Completion FROM CONFIDENTIAL
 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 PBD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

2/28/96 3/11/96 4/16/96
Spud Date Date Reached TD Completion Date

API NO. 15- 187-20818-0000

County Stanton

C - NW - NE Sec. 34 Twp. 29S Rge. 40 W

660 Feet from SW (circle one) Line of Section

1980 Feet from E/W (circle one) Line of Section

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

Lease Name Sarah Jane Well # 1-34

Field Name Little Arrow

Producing Formation St. Louis

Elevation: Ground 3266' KB 3279'

Total Depth 5750' PBDT 5719'

Amount of Surface Pipe Set and Cemented at 1739 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 3012 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT 1 974 12-17-96
(Data must be collected from the Reserve P(t))

Chloride content 1300 ppm Fluid volume 2600 bbls

Dewatering method used Dried and Filled KCC

Location of fluid disposal if hauled offsite: JUN 26

Operator Name _____

Lease Name _____ License No. _____

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

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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

Signature Jessie R. Potts

Title Senior Staff Assistant Date 6/26/96

Subscribed and sworn to before me this 26th day of June, 1996.

Notary Public Denise R. Harris

Date Commission Expires 11-10-96

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
KANSAS CORPORATION COMMISSION
6-27-96
JUN 27 1996

Operator Name Amoco Production Company Lease Name Sarah Jane Well # 1-34

Sec. 34 Twp. 29S Rge. 40 East County Stanton

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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Chase	2229'	KB
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Council Grove	2518'	
List All E.Logs Run: Microlog, High Resolution Induction, Spectral Density Dual Spaced Neutron II EVR		Base Heebner	3694'	
		Lansing	3752'	
		Marmaton	4364'	
		Cherokee	4547'	
		Morrow	5079'	
		Chester	5445'	
		St. Genevieve	5496'	
		St. Louis	5593'	

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"	28	1739'	Premium Plus Lite	520	2%CC+1/4#Flocele
Production-1st Stage	7.875"	4.5"	10.5	4500-5752'	Premium Plus	150	2%CC+1/4#Flocele
Production-2nd Stage	7.875"	4.5"	10.5	850-3005'	Premium	375	1%CC, 7%EA-2, .6% Halad322, 15%Salt, 1/4#/skD-Air

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	5594-5600'; 5611-5620'	Acidize w/ 119 bbls. 28% HCL	5594-5600'

TUBING RECORD	Size 2.375" 4.7# J-55 EUE T&C	Set At 5567'	Packer At 5567'	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. First Gas	4/17/96	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.	Gas 150 MSCFD	Water 50 BWPD	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. Conmingled 5594-5620'

Production Interval: Other (Specify) _____

CONFIDENTIAL
ORIGINAL

DRILLERS LOG

AMOCO PRODUCTION COMPANY
SARAH JANE #1-35
SECTION 34-T29S-R40W
STANTON COUNTY, KANSAS

COMMENCED: 02-28-96
COMPLETED: 03-11-96

SURFACE CASING: 1739' OF 8 5/8" CMTD
W/520 SKS PREMIUM PLUS LITE + 2% CC + 1/4
#/SK FLOCELE. TAILED IN W/150 SKS
PREMIUM PLUS + 2% CC + 1/4 #/SK FLOCELE

FORMATION

DEPTH

SURFACE HOLE	0 - 1739
SANDSTONE	1739 - 1823
RED BED	1823 - 2350
COUNCIL GROVE	2350 - 3756
LANSING	3756 - 4476
MARMATON	4476 - 4590
LIMESTONE & SHALE	4590 - 4620
LIMESTONE, SHALE & CHEROKEE	4620 - 4775
CHEROKEE	4775 - 4965
SHALE	4965 - 5115
MORROW SHALE	5115 - 5286
MORROW	5286 - 5575
ST. GENIVIEVE	5575 - 5750 RTD

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SEP 16 1998

FROM CONFIDENTIAL

KCC

JUN 26

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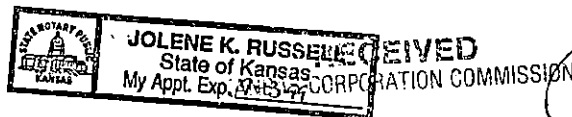
I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 13TH DAY OF MARCH, 1996



JOLENE K. RUSSELL

NOTARY PUBLIC

JUN 27 1996

CONSERVATION DIVISION
WICHITA, KS



JOB LOG HAL-2013-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Amoco Plant		1-34		SARAH JANE		8 3/4 SURFACE		921353	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	2100								JOB READY
	1730								CAVING OUT FOR JOB
	7030								PUMP TRACK ON LOCATION - RIG
									STILL DRILLING - SET UP PUMP TRACK
	2145								RG THROUGH DRAIL IC - ON BOTTOM
									CIRCULATING -
	2230								START PULLING DRILL PIPE - CROWING
	{								TIGHT - FINISH TAPPING O.T
	{								CONC B. MARK PIPE - TAP D.P
									STUCK -
	0400								GET LOGS - FINISH MARKING SURFACE
	0730								START PUMPING 8 3/4 - C.A.P.P. EQUIP
	0830								CRILING ON BOTTOM 1750 FT
	0930								MOVE UP 8 3/4 DR - CIRCULATING TEND
	0935								FAST CIRCULATING WITH R.C. PUMP
	0925								HELD SAFETY MEETING
	0935								THROUGH CIRCULATING - MOVE UP TO
									PUMP TRACK
									JOB PROCEEDED
	0941	6.0	170				2000/1000		STAY MIXING LEAD CMT AT 12.5 ¹⁰⁰ FT
	1017	6.0	35						START MIXING TAIL CMT AT 14.9 ¹⁰⁰ FT
			225						THROUGH MIXING CHANGE UP - START DOWN
	1025								RELEASE PLUG - START DISPLACING
									HAVE 5 BBS PUMPED GEN. DE CMT
									RETURN TO SURFACE
	1045		107.5				800'		PLUG DOWN - PREVENT FLOAT
									FLOAT HELD
							150'		MAX LIFT PRESSURE IN 650 ¹⁰⁰ FT
									CIRCULATED (CONSOLE 270 SPS)

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H.C.
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CONSERVATION DIVISION
WICHITA, KS

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THANK YOU!
GILL BEARD

Woody + Steve

WELL DATA

FIELD _____ SEC. 34 TWP. 29 RNG. 40 COUNTY STANTON 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 1700'
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>11</u>	<u>28"</u>	<u>8 7/8</u>	<u>10</u>	<u>1757</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>INSERT</u>	<u>2 7/8</u>	<u>1</u>
GUIDE SHOE		
CENTRALIZERS	<u>2 7/8</u>	<u>7</u>
BOTTOM PLUG		
TOP PLUG <u>5.12</u>	<u>2 7/8</u>	<u>1</u>
HEAD <u>2 7/8</u>	<u>2 7/8</u>	<u>1</u>
PACKER		
OTHER		

CALLER OUT DATE	ON-LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
<u>2-27-96</u>	<u>2-29-96</u>	<u>3-1-96</u>	<u>3-1-96</u>
TIME <u>17:30</u>	TIME <u>20:30</u>	TIME	TIME

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>S. W. Williams</u>		
<u>D. McLANE</u>		
<u>C. LAY</u>		
<u>D. CRAPPAN, JR.</u>		

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MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL _____
 DISPL. FLUID _____ DENSITY _____ LB/GAL-API _____
 PROP. TYPE _____ SIZE _____ LB. _____
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 SURFACTANT TYPE _____ GAL. _____ IN _____
 NE AGENT TYPE _____ IN _____
 FLUID LOSS ADD. TYPE KANSAS CORPORATION COMMISSION IN _____
 GELLING AGENT TYPE _____ GAL.-LB. _____ IN _____
 FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN _____
 BREAKER TYPE JUN 27 1990 GAL.-LB. _____ IN _____
 BLOCKING AGENT TYPE _____ GAL.-LB. _____
 PERFPAC BALLS TYPE CONSERVATION DIV. QTY. _____
 OTHER WICHITA, KS

DEPARTMENT CEMENT
 DESCRIPTION OF JOB CEMENT 2% SURFACE
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE X
 HALLIBURTON OPERATOR Jph Williams COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>520</u>	<u>PP LITE</u>	<u>MULLS</u>	<u>A</u>	<u>27 cc 1/4 SLOTTED</u>	<u>2.45</u>	<u>123</u>
	<u>170</u>	<u>PP</u>		<u>B</u>	<u>27 cc 1/4 SLOTTED</u>	<u>1.32</u>	<u>142</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

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 47 REASON 4.00 In 17'

PRESLUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 125'
 CEMENT SLURRY: BBL.-GAL. 190.7 LC
 TOTAL VOLUME: BBL.-GAL. 3.2 LC
225' REMARKS

CUSTOMER Amoco Production Co
 LEASE SARAI TWP
 WELL NO. 1-34
 JOB TYPE 2 7/8 SURFACE
 DATE 2-27-96



HALLIBURTON

TICKET CONTINUATION

CUSTOMER COPY

TICKET No.	731353
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HALLIBURTON ENERGY SERVICES

CUSTOMER Arco	WELL Sarah Jane	DATE 2-29-96	PAGE OF
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FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504050	516.00265				Premium Plus Ont.	150	pk			12.62	1893.00
504120					Premium Plus Light Ont.	520	pk			11.12	5782.40
504050	516.00265					338	sk				
506005	516.00286					15036	lb				
506121	516.00259					27	pk				
507210	890.50071				Flo 1/8670sk	168	lb			1.65	277.20
509406	890.50012				Calcium Chloride 2%-670sk	12	sk			36.75	441.00
ORIGINAL CONFIDENTIAL ncc JUN 26 CONFIDENTIAL RELEASED SEP 16 1996 FROM CONFIDENTIAL RECEIVED KANSAS CORPORATION COMMISSION JUN 27 1996 CONSERVATION DIVISION WICHITA, KS											
500207					SERVICE CHARGE						
500306					MILEAGE CHARGE						
						TOTAL WEIGHT 63,170	LOADED MILES 52	CUBIC FEET 705			
						MILEAGE CHARGE		TON MILES 1,642.47			
										1.35	951.75
										95	1560.34

No. B 219858

CONTINUATION TOTAL	10905.47
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CHARGE TO: Amoco Production
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

CUSTOMER COPY

TICKET

No.

921353 - 4

HAL-1908-N

SERVICE LOCATIONS 1. <u>210-874 SURFACE</u>	WELL/PROJECT NO.: 2. <u>1-34</u>	LEASE 3. <u>SEAN TANK</u>	COUNTY/PARISH 4. <u>STANTON</u>	STATE 5. <u>LA</u>	CITY/OFFSHORE LOCATION	DATE 6. <u>2-27-96</u>	OWNER 7. <u>SAMR</u>
TICKET TYPE 8. <u>SALES</u>	NITROGEN JOB? 9. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR 10. <u>CURTIS DRILLING</u>	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO 11. <u>WELLSITE</u>	ORDER NO.	
WELL TYPE 12. <u>21.0W</u>	WELL CATEGORY 13. <u>21.0W</u>	JOB PURPOSE 14. <u>210-874 SURFACE</u>	WELL PERMIT NO.	WELL LOCATION 15. <u>210-874</u>			
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
		1			MILEAGE	76				3.95	300.20
		1				16				1.50	24.00
		1				6				220.00	1320.00
		1				1				170.00	170.00
		1				1				122.00	122.00
		1				4				4.25	17.00
		1				4				23.50	94.00
		1				2				45.50	91.00

ORIGINAL
 CONFIDENTIAL

JUN 26
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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: PULLED & RETURN PULLED RUN

TYPE LOCK	DEPTH	SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL 3570.45
BEAN SIZE	SPACERS		OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?				14976 14
TUBING SIZE	TUBING PRESSURE	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
DATE SIGNED	TIME SIGNED	ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE
		FREE CONNECTION	TYPE VALVE			

CUSTOMER DID NOT WISH TO RESPOND

RECEIVED BY
 STATE COMMISSION
 JUN 27 1996

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) X	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) [Signature]	HALLIBURTON OPERATOR/ENGINEER [Signature]	EMP.# [Number]	HALLIBURTON APPROVAL
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TERMS AND CONDITIONS

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

C. **RELEASE AND INDEMNITY** - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES. CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS, OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP, WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.



JOB LOG HAL-2013-C

DATE: 3-11-96 PAGE NO. 1

CUSTOMER: AMCO PRODUCTION Co WELL NO.: 1-34 LEASE: SARAH JANE JOB TYPE: 4 1/2" LONGSTREAM TICKET NO.: 915263

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0800							CALLER OUT ORIGINAL
	1315							ON LOCATION - DISCUSS JOB PROCEDURES SAFETY MEETING BREAK CIRCULATION
1	1850	6	10		✓	200		PUMP PREFLUSH CONFIDENTIAL
	1855	6 4	90.2		✓	200		MIX CEMENT - 45 BAGS PUMPED - PICKED UP SOMETHING UNDER PUMP - SLOW RATE
	1920							WASH OUT PUMP & LINES
	1921							RELEASE PLUG
	1928	4	0		✓	800		DESPOKE PLUG
	1952		91			2000		PLUG DOWN
	1955					2000		RELEASE PSE
								RELEASED OK PLUG HELD JUN 26 FROM CONFIDENTIAL WASH-UP RACK-UP FINISH TICKETS JOB COMPLETE THANK YOU WAYNE, DAVE, OWEN
								RECEIVED KANSAS CORPORATION COMMISSION JUN 27 1996 CONSERVATION DIVISION WICHITA, KS
								PUMP TANK -

CUSTOMER



JOB SUMMARY

HALLIBURTON DIVISION MINI CORP. UNIT
 HALLIBURTON LOCATION HWYS. 2

BILLED ON TICKET NO. 915763

WELL DATA

FIELD _____ SEC. 34 TWP. 29 RNG. 40N COUNTY STANTON 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	<input checked="" type="checkbox"/>	12.5	4 1/4	KB	5749	
LINER						
TUBING						
OPEN HOLE			7 7/8	5749	5750	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>3-11</u> TIME <u>0800</u>	DATE <u>3-11</u> TIME <u>1215</u>	DATE <u>3-11</u> TIME <u>1245</u>	DATE <u>3-11</u> TIME _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>W. WOOD</u>	<u>29377</u>	<u>HWYS. 2</u>
<u>B. ASH</u>	<u>21609</u>	<u>"</u>
<u>C. GAG</u>	<u>09159</u>	<u>STANTON, KS</u>

CONFIDENTIAL

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>WITH DOWN BATTLES</u>	<u>1</u>	<u>HOWCO</u>
GUIDE SHOE	<u>1</u>	<u>"</u>
CENTRALIZERS	<u>24</u>	<u>"</u>
BOTTOM PLUG		
TOP PLUG <u>WITH DOWN</u>	<u>1</u>	<u>"</u>
HEAD <u>PC.</u>	<u>1</u>	<u>"</u>
PACKER <u>PACKET</u>	<u>1</u>	<u>"</u>
OTHER <u>PORT COLOR</u>	<u>1</u>	<u>BAKER</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. °API
 DISPL. FLUID RELEASED DENSITY _____ LB/GAL. °API
 PROP. TYPE _____ SIZE _____ LB.
 PROP. TYPE SEP 16 1998 SIZE 100 LB.
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 ACID TYPE FROM CONFIDENTIAL 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 _____ GAL.-LB. _____ IN
 OTHER _____
 OTHER _____

RECEIVED
KANSAS CORPORATION COMMISSION

CONFIDENTIAL

DEPARTMENT CEMENT
 DESCRIPTION OF JOB 1 1/2" CONCRETING

TOTAL PDS 5757
 PORT COLOR C 3012 TOP BT # 72
 JOB DONE THRU: TUBING CASING ANNULUS TSG/ANN.

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR Wayne WA COPIES REQUESTED _____

CONSERVATION DIVISION CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	WICHITA, KS BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>375</u>	<u>PREMIUM</u>		<u>B</u>	<u>175cc, 7% SA-2, 5% HWB 222, 15% SPT, 1/4 #/sq D-901</u>	<u>1.25</u>	<u>15.6</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

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 31.38 REASON WITH DOWN BATTLES

PRESLUSH BBL.-GAL. 10 TYPE FRESH WATER
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. 91
 CEMENT SLURRY BBL.-GAL. 90.2
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS

SEE CHART - JOB LOG
THANK YOU

CUSTOMER

CUSTOMER: MINI CORP. UNIT
 LEASE: SABER 2000
 WELL NO.: _____
 JOB TYPE: 1 1/2" CONCRETING
 DATE: 3-11-98



HALLIBURTON

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 915263

HALLIBURTON ENERGY SERVICES

FORM 1911 R-10

CUSTOMER Anco Production Company	WELL Sarah Jane 1-34	DATE 03-11-96	PAGE 2	OF 2
-------------------------------------	-------------------------	------------------	-----------	---------

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOG	ACCT	DF		U/M	U/M			
504-043	516.00272				Premium Cement	375	sk	11	08	4155 00
507-775	516.00144				Inlet-322 .621/ 375	222	lb	7	00	1484 00
507-970	70.15764				D-Air 1 1/2" / 375	94	lb	3	25	305 50
508-127	516.00335				EA-2 7/8" / 375	25	sk	25	90	647 50
508-406	690.50812				Calcium Chloride 1 1/2" / 375	4	sk	35	75	147 00
509-268	516.00315				Granulated salt 1 1/2" / 375	2693	lb	15		403 95
<p>ORIGINAL</p> <p>CONFIDENTIAL</p> <p>RELEASED SEP 16 1998</p> <p>FROM CONFIDENTIAL</p> <p>RECEIVED KANSAS CORPORATION COMMISSION JUN 27 1996</p> <p>CONFIDENTIAL</p> <p>WICHITA, KS</p>										
500-207					SERVICE CHARGE	CUBIC FEET 454		1 35		612 90
500-306					MILEAGE CHARGE	TOTAL WEIGHT 41037	LOADED MILES 38	TON MILES 779.703		95 740 72

No. B 219928

CONTINUATION TOTAL

8496.57



HALLIBURTON ENERGY SERVICES

HAL-1906-N

CHARGE TO: **AMOCO PRODUCTION COMPANY**
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

DUNCAN COPY

TICKET

915263 - 8

RELEASED

SEP 16 1996

NO. CONFIDENTIAL

PAGE	OF
1	2

SERVICE LOCATIONS 1. HAYS, KS	WELL/PROJECT NO. 1-34	LEASE SARAH JAYE	COUNTY/PARISH STANTON	STATE KS	CITY/OFFSHORE LOCATION LOANON	DATE 3-11-96	OWNER SAME
2. HUGOTON, KS	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR CHEYENNE DRILLING	RIG NAME/NO. #7	SHIPPED VIA 521924	DELIVERED TO LOANON	ORDER NO.
3.	WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 035	WELL PERMIT NO. 15187208818000	WELL LOCATION 34 - 29s - 40w		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT	
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M		
000-117		1			MILEAGE	76	MT	1	WT	285	216.60
001-016		1			PUMP SERVICE	5750	FT	6	WTS	2000.00	2000.00
12A	825.201	1			GUIDE SHOE	1	EA	4 1/2"		95.00	95.00
40	806.60004	1			CENTRALIZERS S-4 H	6	EA	4 1/2"		50.00	300.00
50	806.60104	1			CENTRALIZERS FM H	8	EA	4 1/2"		60.00	480.00
320	806.71415	1			BASKET	1	EA	4 1/2"		97.00	97.00
350	890.10802	1			WELD A	1	LB			1675	1675
593	801.0373	1			LATCH DOWN PLUG	1	EA	4 1/2"		159.00	159.00
594	801.03734	1			LATCH DOWN BAFFLE	1	EA	4 1/2"		100.00	100.00
73	813.0141	1			O PORT COLLAR (B)	1	EA	4 1/2"		1525.00	1525.00

RECEIVED
AT SAS CORPORATION COMMISSION
JUL 27 1996
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 X	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 4999.35 FROM CONTINUATION PAGE(S) 8496.57 SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE. 13485.92
	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 3-11-96	TIME SIGNED 1645	<input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.	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) X	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) WAYNE WILSON	HALLIBURTON OPERATOR/ENGINEER 89377	EMP #	HALLIBURTON APPROVAL
---	---	---	-------	----------------------

TERMS AND CONDITIONS

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

C. **RELEASE AND INDEMNITY** - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES. CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART, INTERPRETATION, RESEARCH, ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 5952
Name: Amoco Production Company
Address: P.O. Box 3092
City/State/Zip: Houston, TX 77253-3092
Purchaser: WILLIAMS NATURAL GAS
Operator Contact Person: Lou Barry
Phone: (281) 366-7816
Contractor: Name: Eagle Well Services
License: 7402
Wellsite Geologist: NONE

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/Reentry: Old Well Info as follows:
Operator: Amoco Production Company
Well Name: Sarah Jane 1-34
Comp. Date 4/16/96 Old Total Depth 5752
Deepening Re-perf. Conv. to Inj/SWD
Plug Back 2985 PBTB
Commingled Docket No.
Dual Completion Docket No.
Other (SWD or Inj?) Docket No.
Date of START 3/17/01 Date Reached TD 3/19/01 Completion Date of WORKOVER

API NO. 15- 187-20818-0001
County Stanton
Sec. 34 Twp. 29 S Rge. 40 E
Feet from SN Line of Section 660
Feet from EW Line of Section 1980
Footages Calculated from Nearest Outside Section Corner: NE SE, NW or SW (circle one)
Lease Name (FORMERLY SARAH JANE #1-34) Plummer Well # 2
Producing Formation Council Grove
Elevation: Ground 3265.5' KB 3276'
Total Depth 5752' PBTB 2985'
Amount of Surface Pipe Set and Cemented at 1739 Feet
Multiple Stage Cementing Collar Used? X Yes No
If yes, show depth set Port Collar set at 3010' Feet
If Alternate II completion, cement circulated from
feet depth to w/ sx cmt.
Drilling Fluid Management Plan REWORK: JH 6/21/01
Chloride content ppm Fluid volume bbls
Dewatering method used
Location of fluid disposal if hauled offsite:
Operator Name
Lease Name License No.
Quarter Sec. Twp. S Rge. EW
County Docket No.

KANSAS CORPORATION COMMISSION
WELL COMPLETION FORM
MAY 15 2001

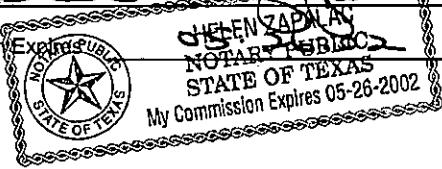
CONSERVATION DIVISION

XXX RENAMED WELL

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 Lou Barry
Title Senior Business Analyst Date 5/10/01
Subscribed and sworn to before me this 10 day of MAY 20 01
Notary Public
Date Commission Expires



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
KCC SWD/Rep NGPA
KGS Plug Other (Specify)

X

Operator Name Amoco Production Company Lease Name Plummer Well # 2
 East
 Sec. 34 Twp. 29 S Rge. 40 West County Stanton

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.) Yes No Log Formation (Top), Depth and Datums Sample

Samples Sent to Geological Survey Yes No Name Top Datum

Cores Taken Yes No

Electric Log Run (Submit Copy.) Yes No

List All E.Logs Run: NONE

CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8.625"	28#	1739'	Premium+Lite	520 150	2% CaCl ₂ + 0.25% Flocele
Production	7 7/8"	4.500"	10.5#	5752'	Premium	375	1% CaCl ₂ + 7% EA-2 + 0.6% HALAD 322
		Port Collar		3005'	Premium Lite	220	N/A

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 checked="" type="checkbox"/> Plug Back TD	2985	CTBP	2	
<input type="checkbox"/> Plug Off Zone	5580	CTBP	2	

PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated

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	2520' - 2540'	Acid w/6000 gal 15% HCL	
		Pump 60,000 gals, 80% N ₂	
		Frac W/60,840 lbs sand	

TUBING RECORD Size 2.375" Set At 2676.42' Packer At None Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 4/9/01 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	<u>NONE</u>	<u>40</u>	<u>60</u>		

Disposition of Gas: METHOD OF COMPLETION Production Interval 2520' - 2540'

Vented Sold Used on Lease Open Hole Perforation Dually Comp. Commingled
 (If vented, submit ACO-18.) Other (Specify)



JOB LOG HAL-2013-C

CUSTOMER ANOCO Prod. Co	WELL NO. 1-34	LEASE SARA-WADE	JOB TYPE RTTS	TICKET NO. 919182
----------------------------	------------------	--------------------	------------------	----------------------

CHART NO.	TIME	RATE (GPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1145							ON LOCATION from AMBER Michelle 1-3
	1200							Pick up tools
	1210							TTH w/
								8' tbg sub 2 3/8"
								1.1 seating nipple 2 3/8"
								6.8 RTTS - (50340-413) 4 1/2" 10.5"
	1315							Set RTTS @ 5606
								Rig crew preparing to swab
	1430							Released from duty
	4-11-96							ORIGINAL
								CONFIDENTIAL
	0800							ON LOCATION
								Csg Psi = 670 Tbg Psi = 670
	0830							bleed down tbg
	0845							bleed down Csg.
	0915							Open Packer Circulating valve
	0920	8	65				315	LOAD ANNULUS
	0940							Release RTTS
	0945	8	40				200	Kill Well
	1000							TOOH w/ tools
	1130							Tools on bank - break
	1230							Pick up tools
	1235							Well Kicks 91 st. under
								Kill w/ 40 bbls
	1245							TTH w/ 120 lbs (60 st)
	1400							Set BV II @ 3787
	1430						1500	Pressure test - tbg Master Valve
								Leaking - Test Appears Valid
								Released from duty
	4-12-96							RECEIVED KANSAS CORPORATION COMMISSION
								JUN-27-1996
	0800							ON LOCATION
								Run 12' subs + 1 w/t.
								Rig onto well head
	0900							Safety meeting
	0920						1500 1500	Load + Pressure test csg
	0938							Test good - formation H ₂ O
								Start Post Collar



JOB LOG HAL-2013-C

DATE 4-12-96 PAGE NO. 2

CUSTOMER ANDCO Prod. Co. WELL NO. 1-34 LEASE SARA-JANE JOB TYPE Port Collar & BVII TICKET NO. 919182

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1032	2 1/2	10	✓		250	250	Port Collar open - Injection rate - tool located 5.16' low
								blow on 8 5/8 Csg.
	1036							Circulation established up 8 7/8" Csg.
		2 1/2	81			250	250	start ER20 137 Pen. Hus HLC
								down hole @ 12.3 gal
	1108							Cont. finished
		2 1/2	11			0	0	START DISPLACEMENT - fresh H2O
	1112					250	250	STOP - Close Port Collar
	1114					1500	1500	Pressure test - good
	1118	3	25			1200	1200	Reverse out - FORMATION H2O
	1123							STOP - 1/2 bbl to pit
								Pull - 12' subs + 1 - 17.
								Run 26 - Its.
	1140	3	40			0	0	WASH SAND OFF BV II - 10' fill
	1155	3	20			1500	1500	Latch onto RBP - Kill lower zones
	1205							Release RBP + TOOTH w/ tools
	1330							LOADED OUT
		3	20			0	0	Kill well for Trip in Hole w/ tlg.
	1345							Released from duty
								KCC
								JUN 26
								CONFIDENTIAL
								Halliburton
								Jeff
								CONFIDENTIAL
								RELEASED
								SEP 16 1998
								RECEIVED
								KANSAS CORPORATION COMMISSION
								JUN 27 1996
								CONSERVATION DIVISION
								WICHITA, KS

CUSTOMER

WELL DATA

FIELD Little Haven SEC 34 TWP. _____ RNG. _____ COUNTY Stanton 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 2 1/2" 5606-413 SET AT 5606
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA KB-130 TOTAL DEPTH 5712

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	15	10.5	4 1/2	KB	5712	
LINER						
TUBING	16	4.7	2 3/8	KB	5606	
OPEN HOLE						SHOTS/FT.
PERFORATIONS				5594	5600	4
PERFORATIONS				5611	5610	4
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE	DATE <u>4-4-96</u>	DATE <u>4-7-96</u>	DATE <u>7-1-96</u>
TIME	TIME <u>1145</u>	TIME <u>1200</u>	TIME <u>1100</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Teff Clark</u>	<u>420366</u>	<u>Liberal, Ks.</u>
<u># 71281</u>	<u>pu</u>	

MATERIALS

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

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DEPARTMENT Tools
 DESCRIPTION OF JOB isolate lower zone for testing
float valve part collar Telf
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE X

OTHER _____
 OTHER _____

HALLIBURTON OPERATOR Teff Clark COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>220</u>	<u>Prem Plus</u>	<u>HLC</u>	<u>B</u>	<u>RELEASED</u>	<u>2.06</u>	<u>12.2</u>

SUMMARY

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL-GAL. _____ TYPE _____
 BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. 110
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____ CEMENT SLURRY: BBL-GAL. 81
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL-GAL. 111
 ORDERED _____ AVAILABLE _____ USED _____
 TREATING _____ DISPL. _____ OVERALL _____
 FEET _____ REASON _____

REMARKS
Tool joint collar spotted closed
and pressure tested 1500 psi
circulation throughout job

CUSTOMER: FMC OIL & GAS, INC. LEASE: 5700-1-1-96
 WELL NO.: 1-1-96
 JOB TYPE: RTIS
 DATE: 4-1-96



TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 341595

HALLIBURTON ENERGY SERVICES

CUSTOMER Anoco WELL Sarah Jane DATE 4-12-96 PAGE 2 OF 2

FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504120					Premium Plus Light Ont.	220	sk			11.12	2446.40
504050	516.00265					143	sk				
506105	516.00286					5698	lb				
506121	516.00259					12	sk				
<p>ORIGINAL</p> <p>CONFIDENTIAL</p> <p>RELEASED SEP 16 1998</p> <p>FROM CONFIDENTIAL</p> <p>RECEIVED KANSAS CORPORATION COMMISSION JUN 27 1996 CONSERVATION DIVISION WICHITA, KS</p>											
500207					SERVICE CHARGE						
500306					MILEAGE CHARGE						
					TOTAL WEIGHT						
					LOADED MILES						
					CUBIC FEET						
					TON MILES						

No. B 341595

CONTINUATION TOTAL

3,241.60

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Amoco Production Company

Sarah Jane 1-34

Sec. 34 T29S R40W

Stanton County, Kansas

15-187-20818

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CONSERVATION DIVISION
WICHITA, KS

ORIGINAL

Precision Core Analysis, Inc.

CONFIDENTIAL

Amoco Production Company
Sarah Jane 1-34
NW NE Section 34 T29S R40W
Stanton County, Kansas

Job:
Date:

9614
26-Mar-96

Reference Number	Depth (ft)	Permeability		Helium Porosity (%)	Grain Density (g/cc)	Sample Description
		Air (md)	Klink (md)			
1	5596.1	0.106	0.061	7.5	2.70	Ls gry ool pyr
2	5597.5	0.058	0.030	7.0	2.70	Ls gry ool pyr
3	5598.4	23.1	19.0	9.4	2.70	Ls gry ool
4	5613.7	236.	213.	11.6	2.70	Ls gry ool foss
5	5614.8	445.	410.	16.9	2.70	Ls gry ool
6	5615.2	445.	410.	16.0	2.70	Ls gry ool foss
7	5616.7	1310.	1240.	19.1	2.70	Ls gry ool
8	5617.8	625.	581.	17.7	2.70	Ls gry ool foss
9	5618.9	1610.	1530.	19.1	2.70	Ls gry ool
10	5619.9	4.06	3.20	10.0	2.70	Ls gry ool

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Precision Core Analysis, Inc.

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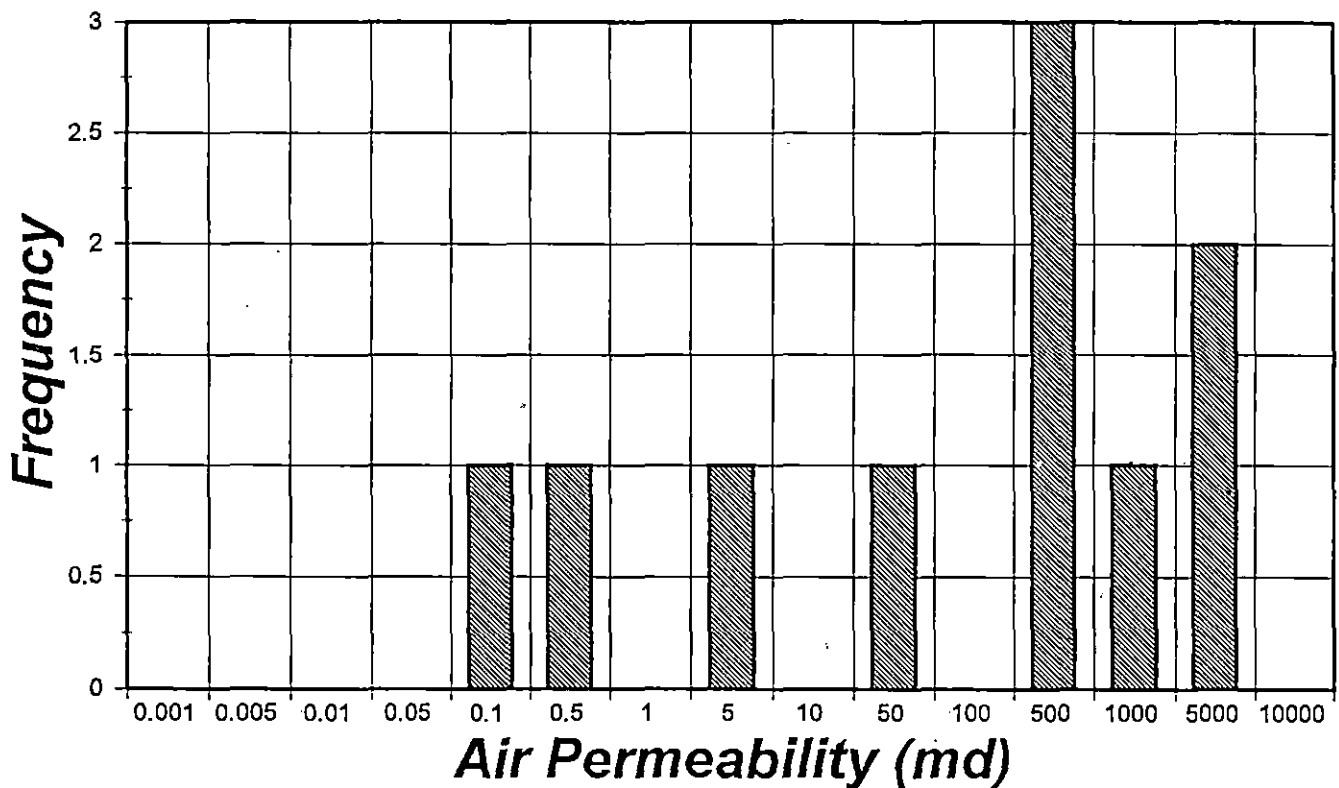
Amoco Production Company
Sarah Jane 1-34
NW NE Section 34 T29S R40W
Stanton County, Kansas

Job:
Date:

9614
26-Mar-96

Air Permeability Frequency Distribution

RCC
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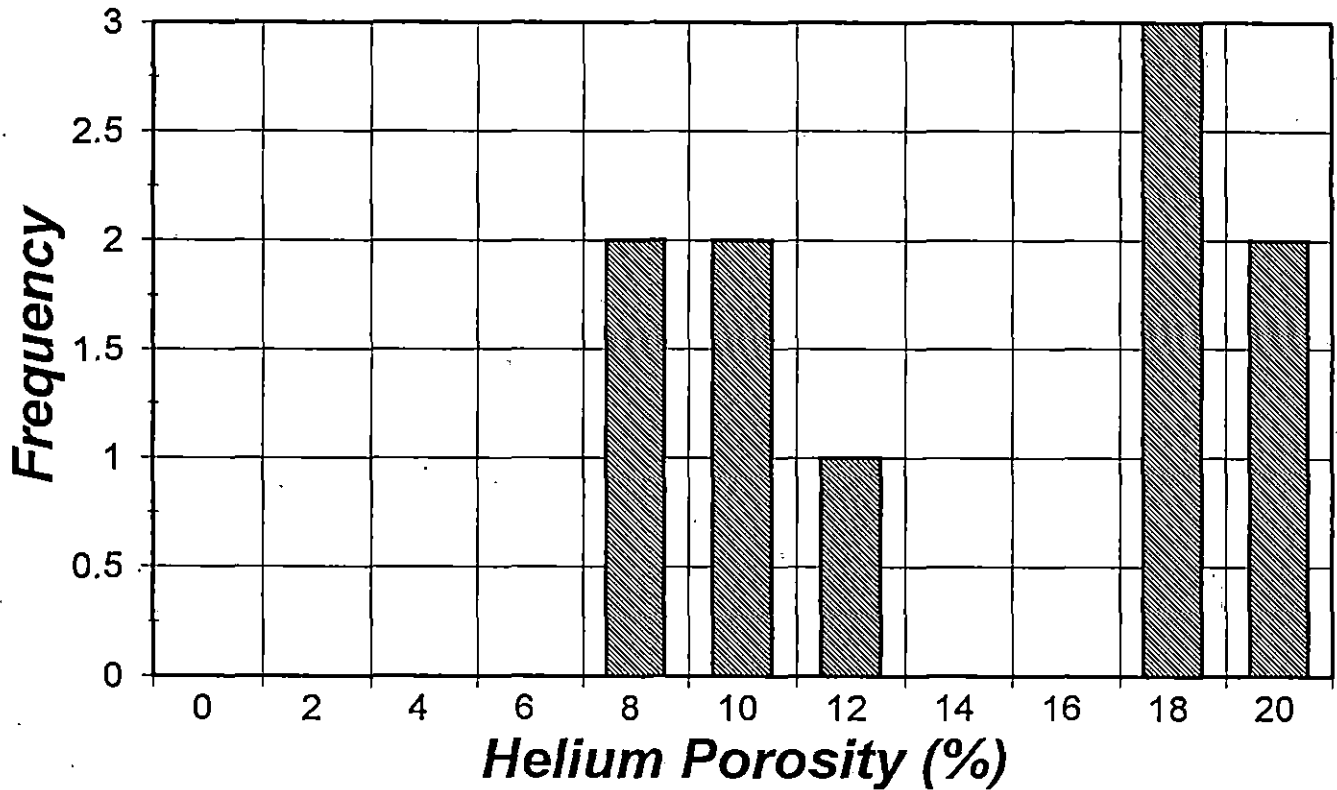
Amoco Production Company
Sarah Jane 1-34
NW NE Section 34 T29S R40W
Stanton County, Kansas

Job:
Date:

9614
26-Mar-96

Helium Porosity Frequency Distribution

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Amoco Production Company
Sarah Jane 1-34
NW NE Section 34 T29S R40W
Stanton County, Kansas

Job: 9614
Date: 26-Mar-96

Zone	Permeability (md)*			Porosity (%)**		
	Median	Arith. Mean	Geom. Mean	Median	Arith. Mean	Geom. Mean
Zone1	340.575	470.075	45.201	13.814	13.435	12.596

* Values above 0.00 md

** Values above 0.00 %

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Precision Core Analysis, Inc.

Amoco Production Company
Sarah Jane 1-34
NW NE Section 34 T29S R40W
Stanton County, Kansas

Job: 9614
Date: 26-Mar-96

Zone1 Air Permeability Regression

Regression Output:

Constant	-2.561412
Std Err of Y Est	0.727808
R Squared	0.829134
No. of Observations	10.000000
Degrees of Freedom	8.000000

X Coefficient(s)	0.313848
Std Err of Coef.	0.050372

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Zone1 Klinkenberg Permeability Regression

Regression Output:

Constant	-2.878425
Std Err of Y Est	0.782218
R Squared	0.823371
No. of Observations	10.000000
Degrees of Freedom	8.000000

X Coefficient(s)	0.330607
Std Err of Coef.	0.054138

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