

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

API NO. 15- 093-21356-0000 **ORIGINAL**  
County KEARNY  
N/2 - N/2 - SW Sec. 5 Twp. 22S Rge. 38 E/W

**CONFIDENTIAL**

Operator: License # 5952  
Name: AMOCO PRODUCTION COMPANY  
Address P. O. BOX 800 ROOM 925  
City/State/Zip DENVER, CO 80201

2350 Feet from SN (circle one) Line of Section  
1320 Feet from EW (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

Purchaser:  
Operator Contact Person: ELLEN HARTZLER  
Phone (303) 830-5130

Lease Name MARTIN Well # 1-5-  
Field Name HUGOTON  
Producing Formation CHASE & COUNCIL GROVE  
Elevation: Ground 3364.43' KB 3375'  
Total Depth 3455' PBDT 3454'

Contractor: Name: CHEYENNE DRILLING  
License: 5382

Amount of Surface Pipe Set and Cemented at 2326 Feet  
Multiple Stage Cementing Collar Used? Yes X No

Wellsite Geologist: None

Yes, show depth set \_\_\_\_\_ Feet

Designate Type of Completion  
X New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover \_\_\_\_\_  
Oil \_\_\_\_\_ SWD \_\_\_\_\_ SLOW X Temp. Abd.  
Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW \_\_\_\_\_  
Dry \_\_\_\_\_ Other (Core, WSW, Expl., Cathodic, etc)

If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.  
Drilling Fluid Management Plan ALT 1 J 21 1-10-95  
(Data must be collected from the Reserve POC)

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. \_\_\_\_\_

Chloride content 5800 ppm Fluid volume 2140 bbls  
Dewatering method used DRIED AND FILLED  
Disposition of fluid disposal if hauled offsite:  
Operator Name \_\_\_\_\_  
Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

04/18/94 Spud Date  
04/29/94 Date Reached TD  
DELAYED FROM COMPLETION Date

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. JUL Rng. 3 E/W  
County \_\_\_\_\_ Docket No. \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 D. Ellen Hartzler  
Title SR. STAFF ASSISTANT Date 7/13/94  
Subscribed and sworn to before me this 13th day of July, 1994.  
Notary Public Susan Callahan  
Date Commission Expires \_\_\_\_\_  
My Commission Expires August 02, 1994

**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)

SIDE TWO

Operator Name AMOCO PRODUCTION COMPANY Lease Name MARTIN Well # 1-5  
 Sec. 5 Twp. 22S Rge. 38  East County KEARNY  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.)

Log Formation (Top), Depth and Datums  Sample  
 Name Top Datum  
 Herrington 2686 KB  
 Council Grove 2909  
 Admire 3361

List All E.Logs Run:  
 HRI, DIL, CSNG, SDL-DSN, MICRO, LSS

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"	24#	2326	Lite/Class C	800/200	2% CACL2, 1/4#/sx Flocele
Production	7 7/8"	5 1/2"	14	3455	Lite/Class C	215/230	1/4 #/sx Flocele 15% Salt 1% CaCl <sub>2</sub> , 10% EA-20.6% Halad322

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	Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4	3280-3290'; 3056-3076'; 2982-2992'; 2910-2930';	20% Fe Acid with Save Additives	3280-2714
	2888-2898'; 2850-2864'; 2806-2816'; 2766-2784';	(SEE ATTACHED)	
	2740-2752'; 2694-2714';		

TUBING RECORD Size Set At Packer At Liner Run  Yes  No

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

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

Disposition of Gas: **METHOD OF COMPLETION** Production Interval  
 Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled  
 (If vented, submit ACO-18.)  Other (Specify) \_\_\_\_\_

API NO. 15-093-21356 - 0000

WELL NAME: MARTIN 1-52  
COUNTY: KEARNY

ORIGINAL  
CONFIDENTIAL

3280-3290	750 GAL
3056-3076	1500 GAL
2982-2992	750 GAL
2910-2930	1500 GAL
2888-2898	750 GAL
2850-2864	1050 GAL
2806-2816	750 GAL
2766-2784	1350 GAL
2740-2752	900 GAL
2694-2714	1500 GAL

KUL  
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JUL 14 1994

CONSERVATION DIVISION  
WICHITA, KS

## DRILLERS LOG

AMOCO PRODUCTION COMPANY  
MARTIN #1-5  
SECTION 5-T22S-R38W  
KEARNY COUNTY, KANSAS

ORIGINAL  
CONFIDENTIAL

COMMENCED: 04-18-94  
COMPLETED: 04-29-94

SURFACE CASING: 2327' OF 8 5/8"  
CMTD W/800 SX LT "C", 2% C.C.,  
1/4#/SX FLO-CELE; TAILED IN W/  
200 SX "C", 2% C.C., 1/4#/SX FLO-CELE

FORMATION	DEPTH
SURFACE HOLE	0-2327
SAND & ANHYDRITE	2327-2520
SHALE & LIME	2520-2726
CHASE	2726-2909
COUNCIL GROVE	2909-3455

RELEASED

NOV 1 1996

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WICHITA, KS

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

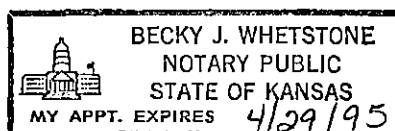
CHEYENNE DRILLING, INC.



WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 4TH DAY OF MAY, 1994.



Becky J. Whetstone  
BECKY J. WHETSTONE, NOTARY PUBLIC

**JOB LOG** FORM 2013 R-4

 DATE 4-28 PAGE NO.

 CUSTOMER Amoco WELL NO. 1-5 LEASE Martin JOB TYPE 3 1/2 L.S. TICKET NO. 590343

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1400							galled out
	1500							req on LOC
	1700							on LOC
								RELEASED
								NOV 1 1996
	1800							2592 PP4 safety meet
								FROM CONFIDENTIAL
								CIA w/ A/S ORIGINAL
	2020 5							CONFIDENTIAL
	2024 5		20 BBL					300 ST H2O
								300 Fin H2O
	2025 5							300 ST CMT
	2047 5		139					300 Fin CMT
	2058		10 BBL					wash Pumps + Lines
	2049							Drop PLS
	2050 5							0 ST Disp
	2106 3		85 BBL					1200 Fin Disp

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 JUL 13  
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JUL 14 1994

 CONSERVATION DIVISION  
 WICHITA, KS

CUSTOMER  
LEASE  
WELL NO.  
JOB TYPE  
DATE

**WELL DATA**

FIELD \_\_\_\_\_ SEC. *5* TWP. *22* RNG. *38* COUNTY *Kearny* 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	<i>N</i>	<i>14</i>	<i>5 1/2</i>	<i>TD</i>	<i>3470</i>	
LINER						
TUBING			<i>2 3/8</i>	<i>TD</i>	<i>3155</i>	
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <i>55 II</i>	<i>1</i>	<i>HOUCO</i>
GUIDE SHOE		
CENTRALIZERS <i>5-4</i>	<i>5</i>	<i>RELEASED</i>
BOTTOM PLUG		
TOP PLUG	<i>1</i>	<i>NOV 1 1996</i>
HEAD		
PACKER		
OTHER <i>Weld</i>	<i>1</i>	<i>FROM CONFIDENTIAL</i>

**MATERIALS**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

**JOB DATA**

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>4-28</i>	DATE <i>4-28</i>	DATE <i>4-28</i>	DATE <i>4-28</i>
TIME <i>1400</i>	TIME <i>1700</i>	TIME <i>2026</i>	TIME <i>2130</i>

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<i>K. K. K.</i>	<i>110079</i>	<i>LAMA</i>
<i>B. B. B.</i>	<i>2592</i>	<i>11</i>
<i>M. M. M.</i>		<i>H. H. H.</i>
<i>N. N. N.</i>		<i>11</i>

**ORIGINAL**

DEPARTMENT *CMT*

DESCRIPTION OF JOB *5 1/2 L.S.*

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.

CUSTOMER REPRESENTATIVE *X*

HALLIBURTON OPERATOR *On Kinner* COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<i>1</i>	<i>215</i>	<i>HIC</i>		<i>D</i>	<i>1 1/2 # FLO</i>	<i>1.92</i>	<i>12.3</i>
<i>2</i>	<i>230</i>	<i>HIC</i>		<i>B</i>	<i>18 20 54-2 12cc .62 H. H. H. 3.22 15 20 Salt 1/2 FLO</i>	<i>1.58</i>	<i>14.8</i>

**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 *111* REASON \_\_\_\_\_

**SUMMARY**

PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_

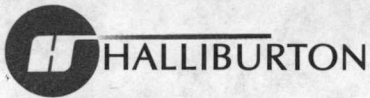
LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_

TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. *85*

CEMENT SLURRY: BBL.-GAL. *139*

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

**RAMARKS**



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

COPY

15-093-21356-0000

TICKET No. 703113

FORM 1911 R-9

CUSTOMER <b>Amoco</b>	WELL <b>Martin</b>	DATE <b>4-28-94</b>	PAGE <b>33</b>	OF
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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	230	sk			9 96	2290 80
504-120					Halliburton Light Cement	215	sk			8 75	1881 25
504-050	516.00265										
506-105	516.00286										
506-121	516.00259										
507-210	890.50071				Flocele 1/4#/445sk	111	lb			1 40	155 40
509-406	890.50812				Calcium Chloride 1%/230sk	2	sk			28 25	56 50
507-775	516.001444				Halad-322/230sk	130	lb			7 00	910 00
508-127	890.50131				EA-2 10%/230sk	22	sk			20 20	455 40
509-968	516.00315				Salt 15%/230sk	2098	lb			13	272 70
500-207					SERVICE CHARGE						
								CUBIC FEET	515	1 35	695 25
500-306					MILEAGE CHARGE			TON MILES	1360.54	95	1292 51
					TOTAL WEIGHT	46,120		LOADED MILES	59		

CONTINUATION TOTAL **8009.71**

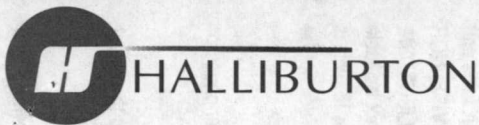
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CONSERVATION DIVISION  
WICHITA, KS

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HALLIBURTON ENERGY SERVICES

FORM 1906 R-13

CHARGE TO: ADDRESS: Amoco  
CITY, STATE, ZIP CODE:

COPY TICKET No. 590343 - 6  
15-093-21356-0000  
PAGE 1 OF 1

SERVICE LOCATIONS: 1. 25615, 2. 25535  
WELL/PROJECT NO.: 1-5  
LEASE: Martin  
COUNTY/PARISH: Kennebec  
STATE: ME  
CITY/OFFSHORE LOCATION: 4-28  
OWNER: ME  
TICKET TYPE: SERVICE  
NITROGEN JOB? NO  
CONTRACTOR: Cheyenne  
RIG NAME/NO.: 3  
SHIPPED VIA: H  
DELIVERED TO: 100  
ORDER NO.:  
WELL TYPE: 22  
WELL CATEGORY: 01  
JOB PURPOSE: 235  
WELL PERMIT NO.:  
WELL LOCATION: 5-22-38  
REFERRAL LOCATION:  
INVOICE INSTRUCTIONS:

ORIGINAL

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
10-117					MILEAGE						
01-016					Pump charge						139000
10-018					10' top 1143	10					6500
40-007	73022				centralizers	5					22000
-A	3102100				Suber Seal II	1					22500
350	870 10502				Well A	1					11100

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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.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: **X**

DATE SIGNED: 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	<b>SURVEY</b> 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? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND	<b>PAGE TOTAL</b> FROM CONTINUATION PAGE(S) <b>SUB-TOTAL</b> APPLICABLE TAXES WILL BE ADDED ON INVOICE
BEAN SIZE	SPACERS		
TYPE OF EQUALIZING SUB.	CASING PRESSURE		
TUBING SIZE	TUBING PRESSURE		
TREE CONNECTION	TYPE VALVE		

**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):  
CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): **X**  
HALLIBURTON OPERATOR/ENGINEER: [Signature]  
EMP #: [Number]  
HALLIBURTON APPROVAL: [Signature]  
5954.53



## 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.

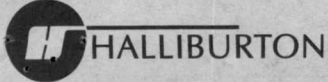
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H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should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

**JOB LOG** FORM 2013 R-4

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Amaco Prod		#1		-marton		8 7/8 Surface		663980	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
1	0100								called out
	0520								ON Loc w Equip + cement 800 <sup>st</sup> C Lt wt. 27% cc 1/4" Flocculate/sk. 200sk C 27% cc 1/4" Flocculate/sk set up + Plan Job.
									RELEASED NOV 1 1996 Rig drilling @ 2207' Finish Drilling hole, c.c. make short Trip.
	1115								FROM CONFIDENTIAL Back on Bottom w/ Bit + c.c. Hole + Drill 25 more FT TD 2327'
	1300								start out of Hole w/ Drill pipe + Bit.
	1400								out of Hole w/ D.P.
	1410								Start 8 7/8 surface csg 24" P.P.
	1515								Hook up sledge + fill csg + c.c. Hole, w/ 12 Joints left to run csg on Bottom
	1540								Hook up + c.c. w/ Rig pump
	1600								Hook up to cement wall
	1602	7							CONFIDENTIAL Start to mix 800 sks C Lt. wt. 27% cc 1/4" Flocculate/sk
	1645	7							250 <sup>st</sup> Start mix 250 sks C w/ 27% cc 1/4" Flocculate sk
			340						250 <sup>st</sup> Fin mix
									Release Surfer Plug
		7							200 <sup>st</sup> start D.P. csg csg 145 BBLs
	1717		145						1220 <sup>st</sup> Plug down and cement Job complete "Pump LAST 10 BBLs 3 BPM"
									NUL JUL 13 CONFIDENTIAL 45 BBLs was to bit. 122.6 SKs c.c. to pit Reck up Equip. Thank you Allan was + CROW



# JOB SUMMARY

HALLIBURTON DIVISION M.D. Cant  
 HALLIBURTON LOCATION Liberal KS

15-093-21356-0000  
 BILLED ON TICKET NO. 665980

## WELL DATA

FIELD Hu SEC. 2 TWP. 22 RNG. 38 COUNTY Kearney Co 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 2327

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		24	4 7/8	KB	2326	
LINER						
TUBING						
OPEN HOLE				2326	2327	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT-SHOE <u>Insert + F. Plug</u>	<u>1</u>	<u>Hovaco</u>
GUIDE SHOE		
CENTRALIZERS <u>2-4</u>	<u>5</u>	<u>Hovaco</u>
BOTTOM PLUG		
TOP PLUG <u>5.000 P</u>	<u>1</u>	<u>Hovaco</u>
HEAD		
PACKER		
OTHER		

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>4-20-94</u>	DATE <u>4-20-94</u>	DATE <u>4-20-94</u>	DATE <u>4-20-94</u>
TIME <u>0100</u>	TIME <u>0520</u>	TIME <u>1430</u>	TIME <u>1830</u>

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>A. F. Worth</u>	<u>86101</u>	<u>RD</u>
	<u>40087</u>	<u>Hays Ks</u>
<u>W. Fox</u>	<u>4437</u>	<u>2060 RGM</u>
	<u>504042</u>	<u>Liberal Ks</u>
	<u>75817</u>	<u>trhn</u>
<u>J. Mann</u>	<u>84549</u>	<u>5282710</u>
	<u>5302</u>	<u>trhn</u>
<u>Allen Clark</u>	<u>62724</u>	<u>3626 tr</u>
	<u>4734</u>	<u>trhn</u>
<u>J. Adair</u>	<u>63813</u>	<u>50757 tr</u>
		<u>Hugotank</u>

### MATERIALS

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

DEPARTMENT CM  
 DESCRIPTION OF JOB 8-1/8 Surface Pipe  
 NOV 1 1996

RELEASED

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.

CUSTOMER REPRESENTATIVE X FROM CONFIDENTIAL

HALLIBURTON OPERATOR A. F. Worth COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>800</u>	<u>Class C</u>	<u>Part B</u>	<u>B</u>	<u>2 1/2 cc 1/4 P 11 scale / sk</u>	<u>2.06</u>	<u>12.3</u>
	<u>200</u>	<u>Class C</u>	<u>Part B</u>	<u>B</u>	<u>2 1/2 cc</u>	<u>12.6</u>	<u>14.8</u>

CONFIDENTIAL

### PRESSURES IN PSI

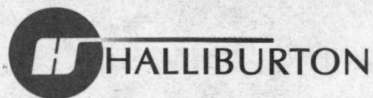
### SUMMARY

### VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. 145  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 340  
 HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 FEET 42.58 REASON Shoe Joint 200 Job Log + chart  
45 bbls c.c. to Pit  
1226 sacks

CUSTOMER  
 LEASE  
 WELL NO.  
 JOB TYPE

15-093-21356-0600



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

COPY

122

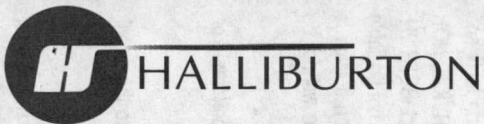
TICKET No. 663920

FORM 1911 R-9

CUSTOMER Amoco Production	WELL Martenn #1	DATE 04-20-94	PAGE 2	OF 2
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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY. U/M		QTY. U/M		UNIT PRICE	AMOUNT		
		LOC	ACCT	DF									
504-050	516.00265	ORIGINAL	CONFIDENTIAL		Premium Plus Cement	200	sk			9.96	1992.00		
504-120					Halliburton Light Cement	800	sk			8.75	7000.00		
504-050	516.00265												
506-105	516.00286												
506-121	516.00259												
507-210	890.50071						Flecele 1/4W/ 1000	250	lb			1.40	350.00
509-406	890.50812						Calcium Chloride 2W/ 1000	18	sk			28.25	508.50
<p style="margin: 0;">MAY 13 1996</p> <p style="margin: 0;">CONFIDENTIAL</p>						<p style="writing-mode: vertical-rl; transform: rotate(180deg); margin: 0;">RELEASED</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg); margin: 0;">NOV 1 1996</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg); margin: 0;">FROM CONFIDENTIAL</p>							
<p style="margin: 0;">RECEIVED</p> <p style="margin: 0;">KANSAS CORPORATION COMMISSION</p> <p style="margin: 0;">JUL 14 1994</p> <p style="margin: 0;">CONSERVATION DIVISION</p> <p style="margin: 0;">WICHITA, KS</p>													
500-207					SERVICE CHARGE			CUBIC FEET		1053	135	1421.55	
500-306					MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES			95	2597.03	
						94,266	58	2733.714					

CONTINUATION TOTAL 14,219.08



**HALLIBURTON ENERGY SERVICES**

FORM 1906 R-13

CHARGE TO: Amco Production  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

COPY 15-093-21356-0000  
 TICKET No. 663980 - 9  
 PAGE 1 OF 2

SERVICE LOCATIONS  
 1. Liberal 025543  
 2. Liberal 02555  
 3.  
 4.

WELL/PROJECT NO. H1  
 LEASE Market  
 COUNTY/PARISH Kearney Co  
 STATE Ks  
 CITY/OFFSHORE LOCATION  
 DATE 4-20-94  
 OWNER Same

TICKET TYPE  SERVICE  
 SALES  
 NITROGEN JOB?  YES  NO  
 CONTRACTOR Chrysan Oil  
 RIG NAME/NO. Chrysan-014#3  
 SHIPPED VIA  
 DELIVERED TO  
 ORDER NO.

WELL TYPE 02  
 WELL CATEGORY  
 JOB PURPOSE  
 WELL PERMIT NO.  
 WELL LOCATION 5-22-34

REFERRAL LOCATION  
 INVOICE INSTRUCTIONS  
cont. 8 1/2" surface pipe

RELEASED NOV 1 1996 FROM CONFIDENTIAL

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M		
000-117		1			MILEAGE 504042	120				2.75	330.00
201-016		1			Pump service	2327		FT		1290.00	1290.00
241	815 19502	1			210000	1100		8 1/2" dia		171.00	171.00
27	815 19415	1			Filling	1100		8 1/2" dia		55.00	55.00
40	806 61040	1			Cast	540		8 1/2" dia		65.00	325.00
200	890 10022	1			Weld on	1100				19.50	19.50
030-018		1			Surface Plug	1100		8 1/2" dia		130.00	130.00

ORIGINAL

CONFIDENTIAL

NOV JUL 13 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.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE  
**X**

DATE SIGNED TIME SIGNED  A.M.  P.M.

TUBING SIZE TUBING PRESSURE WELL DEPTH

TREE CONNECTION TYPE VALVE

SUB SURFACE SAFETY VALVE WAS:  
 PULLED & RETURN  PULLED  RUN

TYPE LOCK DEPTH  
 BEAN SIZE SPACERS  
 TYPE OF EQUALIZING SUB. CASING PRESSURE

**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  
 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) CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) HALLIBURTON OPERATOR/ENGINEER EMP # HALLIBURTON APPROVAL

**X** Allen F. Worth 86101

## 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.

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