

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

ORIGINAL

API NO. 15- 175-21274 - 0000

County Seward

C-NE Sec. 35 Twp. 31<sup>S</sup> Rge. 32 X<sup>E</sup>

Operator: License # 5293

Name: Helmerich & Payne, Inc.

Address P.O. Box 558

City/State/Zip Garden City, KS 67846

Purchaser: \_\_\_\_\_

Operator Contact Person: Ken Jehlik

Phone (316) 276-3693

Contractor: Name: Cheyenne Drilling

License: \_\_\_\_\_

Wellsite Geologist: Bob Owens

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SIDW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSV, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBTD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Jocket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

10-16-92 10-26-92 10-27-92  
Spud Date Date Reached TD Completion Date  
P & A

3960 Feet from  N (circle one) Line of Section

1320 Feet from  W (circle one) Line of Section

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

Lease Name Woodward Well # A-1

Field Name Wildcat

Producing Formation \_\_\_\_\_

Elevation: Ground 2839 KB 2849

Total Depth 5935 PBTD \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 1678 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 cat.

Drilling Fluid Management Plan ALT 1 / 12-1-92  
(Data must be collected from the Reserve Pit)

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 Rng. \_\_\_\_\_ 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 [Signature]  
Title District Engineer Date 10-28-92

Subscribed and sworn to before me this 30 day of Oct  
19 92.

Notary Public [Signature]  
Date Commission Expires August 15, 1996

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)

Operator Name Helmerich & Payne, Inc. Lease Name Woodward Well # A-1

Sec. 35 Twp. 31<sup>S</sup> Rge. 32  East  West  
 County Seward

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Chase	2641	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Council Grove	3016	
List All E.Logs Run: Induction electric & neutron density		Heebner	4229	
		Lansing	4336	
		Marmaton	4962	
		Cherokee Shale	5124	
		Atoka	5268	
		Morrow	5488	
		Chester	5518	
		St. Gen.	5708	
		St. Louis	5856	

DST 1 Morrow 5502-5540  
 IH-2683  
 30" IFP-41-41  
 60" ISIP-1587  
 90" FFP-27 to 27  
 180" FSIP-1662  
 FH-2559  
 Rec: 20' mud

DST 2 5423-5934  
 IH-2718 Atoka  
 30" IFP-162-162 Morrow  
 60" ISIP-1162  
 90" FFP-194-194  
 180" FSIP-1377  
 FH-2627 CASING RECORD  
 Rec: 240' GIP, 340' GM

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	8-5/8	24	1678	HLC	600	6% gel 2% CC, 1/2# flake
					Class C	150	2% CC 1/2# flake

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				

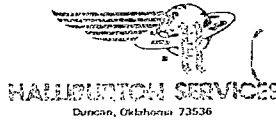
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	None		

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

Date of First, Resumed Production, SMD or Inj. None - Dry Hole Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
<u>DP</u>								

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 None



A Division of Halliburton Company

TICKET NO. 251014-5

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME <i>A1 Woodward</i>		COUNTY <i>Seward</i>	STATE <i>KS</i>	CITY / OFFSHORE LOCATION	DATE <i>10-17-92</i>
CHARGE TO <i>Cheyenne Drilling</i>		OWNER <i>Helmreich &amp; Payne Inc.</i>		TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS <i>P.O. Box 916</i>		CONTRACTOR <i>Cheyenne Drilling # 4</i>		1 LOCATION <i>Liberal</i>	CODE <i>025590</i>
CITY, STATE, ZIP <i>Garden City KS. 67846</i>		SHIPPED VIA <i>Co Tak</i>		FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT	2 LOCATION <i>Hugoton</i>
WELL TYPE <i>01</i>	WELL CATEGORY <i>04</i>	WELL PERMIT NO.	DELIVERED TO <i>Location</i>	3 LOCATION	CODE <i>025535</i>
TYPE AND PURPOSE OF JOB <i>010</i>		ORDER NO.		REFERRAL LOCATION	
		<b>B-122617</b>			

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
					QTY	MEAS	QTY	MEAS			
000-117				MILEAGE 75374	1	UN	20	M	2.60	52	00
001-016				Pump Charge	8	HR	1682	SL		1020	00
030-018				Swiper Top Plug	1	EA	8 5/8	IN		130	00
40	307.93059			Centralizers	3	EA	8 5/8	IN	67.	201	02
597	825.1269			Alum. Baffle	1	EA	8 5/8	IN		45	00
350	890.10802			Howco Weld A	1	LB				11	50

NOT THIS IS AN INVOICE

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

**B-122617**

7759 47

WAS JOB SATISFACTORILY COMPLETED? \_\_\_\_\_

WAS OPERATION OF EQUIPMENT SATISFACTORY? \_\_\_\_\_

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? \_\_\_\_\_

X T.A. DAVIS  
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X \_\_\_\_\_  
CUSTOMER OR HIS AGENT (SIGNATURE)

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

**RECEIVED**  
STATE CORPORATION COMMISSION

*Richard L. Tush*  
HALLIBURTON OPERATOR

**NOV 2 1992**

HALLIBURTON APPROVAL \_\_\_\_\_

CUSTOMER \_\_\_\_\_

SUB TOTAL

APPLICABLE TAXES WILL BE ADDED ON INVOICE.



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 251014

DISTRICT liberal

DATE 10-17-92

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Cheyenne Drilling (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. A-1 LEASE Woodward SEC 35 TWP 31S RANGE 32W

FIELD M. Liberal COUNTY Seward STATE KS OWNED BY Holmerich & Payne Inc.

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME TYPE FORMATION THICKNESS FROM TO PACKER: TYPE SET AT TOTAL DEPTH 1678 MUD WEIGHT BORE HOLE 12 1/4 INITIAL PROD: OIL BPD, H2O BPD, GAS MCF PRESENT PROD: OIL BPD, H2O BPD, GAS MCF

Table with columns: CASING, LINER, TUBING, OPEN HOLE, PERFORATIONS. Includes values like N, 24, 8 5/8, K.B., 1682, 12 1/4, K.B., 1678.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED Cement 8 5/8" Surface casing w/ 600 sks "L" HLC w/ 2 1/2% C.C. & 1/4 #16k Floccle & 150 sks Prem Plus w/ 2% C.C. & 1/4 #16k Floccle, displace Swiper top plug to alum. bottle w/ 104 bbls Fresh water, shut in head & manifold.

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees:

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice.
b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage.
2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.
c) That 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 products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton.
d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials.
e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton.
f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED CUSTOMER

DATE 10-17-92

TIME 19:00 A.M. (ED)

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER



**HALLIBURTON SERVICES**  
Duncan, Oklahoma 73506

A Division of Halliburton Company

# BULK MATERIALS DELIVERY AND TICKET CONTINUATION

FOR INVOICE AND  
TICKET NO. 251014

DATE 10-17-92	CUSTOMER ORDER NO.	WELL NO. AND FARM Woodward A-1	COUNTY Seward	STATE Kansas
CHARGE TO Cheyenne Drilling		OWNER Helmerich & Payne	CONTRACTOR Cheyenne Rig #4	No. <b>B 122617</b>
MAILING ADDRESS		DELIVERED FROM Hugoton, Kansas	LOCATION CODE 025535	PREPARED BY Don Phillips
CITY & STATE		DELIVERED TO S/E Sublette, Kansas	TRUCK NO.	RECEIVED BY <i>R Taylor</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-050	516.00265	2	B	Premium Plus Cement	150	sk			8.19	1,228	50
504-120		2	B	Halliburton Light Cement	600	sk			7.40	4,440	00
507-210	890.50071	2	B	Flocele B/1/4# W/ 750	188	lb			1.30	244	40
509-406	890.50812	2	B	Calcium Chloride B/ 2% W/ 750	14	sk			26.50	371	00
					Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES			
					SERVICE CHARGE ON MATERIALS RETURNED			CU. FEET			
500-207		2	B	SERVICE CHARGE			CU. FEET 791	1.15	909	65	
500-306		2	B	Mileage Charge	70,740# TOTAL WEIGHT	20 LOADED MILES	707.400 TON MILES	.80	565	92	
No. <b>B 122617</b>		CARRY FORWARD TO INVOICE					SUB-TOTAL		7759 47		

THIS IS NOT AN INVOICE



# JOB SUMMARY

HALLIBURTON DIVISION Eastern Area  
 HALLIBURTON LOCATION Liberal

BILLED ON TICKET NO. 251011

## WELL DATA

FIELD Liberal SEC. 35 TWP. 31 RNG. 32 COUNTY Sevier STATE Ks

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		N	24	8 5/8	K.B.	1182	
LINER							
TUBING							
OPEN HOLE				12 1/4	K.B.	1678	SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

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

## JOB DATA

TYPE AND SIZE	QTY.	MAKE	DATE	TIME	DATE	TIME	DATE	TIME
FLOAT COLLAR	1	H	10-17-92	16:00	10-17-92	12:00	10-17-92	21:00
FLOAT SHOE		O						
GUIDE SHOE		W						
CENTRALIZERS	3	r						
BOTTOM PLUG		H O						
TOP PLUG	1	O						
HEAD		W						
PACKER		C						
OTHER	1	O						

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
P Taylor	D4037	Liberal
J. McAfee	52823	Liberal
D. Pierce	25304	Liberal
D. McIntyre	3626	Hugoton
	B7106	Hugoton
	3625	Hugoton
	D9204	Hugoton
	4815	Hugoton

DEPARTMENT Cement  
 DESCRIPTION OF JOB 8 5/8 Surface Casing

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE X T A Davis  
 HALLIBURTON OPERATOR P Taylor COPIES REQUESTED 1

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	600	HLC	C	B	2% CC + 1/4% pk Floccule	2.06	12.3
2	150	Prem Plus	C	B	2% CC + 1/4% pk Floccule	1.22	14.8

## 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. 10.4  
 SHUT-IN: INSTANT 5-MIN. 15-MIN. CEMENT SLURRY: BBL-GAL. 255  
 HYDRAULIC HORSEPOWER TOTAL VOLUME: BBL-GAL. 359

ORDERED AVAILABLE USED  
 AVERAGE RATES IN BPM

TREATING DISPL. OVERALL  
 CEMENT LEFT IN PIPE

FEET 47.86 REASON Shut In

## REMARKS

See Job Log

CUSTOMER Liberal  
 LEASE Liberal  
 WELL NO. A-1  
 JOB TYPE Surface Casing  
 DATE 10-17-92

