

# ORIGINAL

SIDE ONE

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 800, Rm. 1833  
City/State/Zip Denver, CO 80201

Purchaser: \_\_\_\_\_  
Operator Contact Person: J. A. Victor  
Phone (303) 830-4009

Contractor: Name: Cheyenne Drilling  
License: 5382

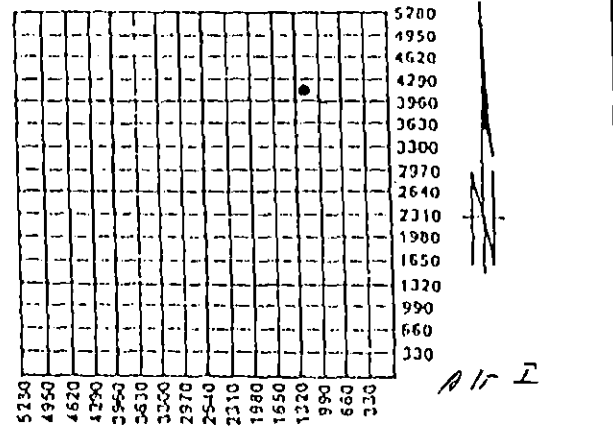
Wellsite Geologists: \_\_\_\_\_

Designate Type of Completion  
 New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover  
 Oil \_\_\_\_\_ SWD \_\_\_\_\_ Temp. Abd.  
 Gas SP \_\_\_\_\_ Inj \_\_\_\_\_ Delayed Comp.  
 Dry \_\_\_\_\_ Other (Core, Water Supply, etc.)

If OAWO: old well info as follows:  
Operator: N/A  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:  
 Mud Rotary \_\_\_\_\_ Air Rotary \_\_\_\_\_ Cable  
7/30/90 8/2/90 10/5/90  
Spud Date Date Reached TD Completion Date

API NO. 15- 093-21079-0000  
County Kearny  
SW NE NE Sec. 19 Twp. 24 Rge. 36  East West  
4030 Ft. North from Southeast Corner of Section  
1250 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)  
Lease Name Waechter G.U. L Well # 3HI  
Field Name Hugoton  
Producing Formation Chase  
Elevation: Ground 3265' KB 3277'  
Total Depth 2805' PBID \_\_\_\_\_



Amount of Surface Pipe Set and Cemented at 787 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 cm.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work. STATE CORPORATION COMMISSION

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 Cl Burton  
Title Sr. Admin. Analyst Date 11/14/90  
Subscribed and sworn to before me this 14 day of November, 19 90.  
Notary Public Julie A. Victor  
Date Commission Expires 4/7/94

NOV 18 1990  
11-19-90 P1  
K.C.C. CONFIDENTIAL USE ONLY  
F \_\_\_\_\_ Letter of Confidentiality Attached  
C \_\_\_\_\_ Wireline-log Received  
C \_\_\_\_\_ Drillers TimeLog Received  
Distribution  
KCC \_\_\_\_\_ SWD/Rep \_\_\_\_\_ NGPA  
KGS \_\_\_\_\_ Plug \_\_\_\_\_ Other (Specify)

SIDE TWO

Operator Name Amoco Production Company Lease Name Waechter G.U. L Well # 3HI  
 Sec. 19 Twp. 24 Rge. 36  East  West  
 County Kearny

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.)

Name	Formation Description	
	Top	Bottom
Chase	2545'	2810'

**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"	8-5/8"	24#	787'	Lite C	250	
Production	7-7/8"	5-1/2"	15.5#	2805'	Class C	150	
					Lite C	675	
					Class C	120	

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	

TUBING RECORD	Size	Set At	Packer At	Liner Run
None				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First Production	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
SI				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
		1500		

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION:  Open Hole  Perforation  Dually Completed  Confinigled  other (Specify) slotted casing

Production Interval: 2547-2805'

# DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

ORIGINAL

ORIGINAL

8-22

15-093-21079-0000

OILFIELD SERVICES  
INDUSTRIAL SERVICES

DSI SERVICE ORDER  
RECEIPT AND INVOICE NO.  
**03-12-2977**

DSI SERVICE LOCATION NAME AND NUMBER  
**ULYSSES, KANSAS 03-12**

CUSTOMER NUMBER  
CUSTOMER P.O. NUMBER

TYPE SERVICE CODE  
**285**  
BUSINESS CODES

WORKOVER  W  
NEW WELL  N  
OTHER  O  
API OR IC NUMBER

CUSTOMER'S NAME

ADDRESS

*Amado*

CITY, STATE AND ZIP CODE

DSI will furnish and Customer shall purchase materials and services required in the performance of the following SERVICE INSTRUCTIONS or DSI INDUSTRIAL SERVICE CONTRACT NO. \_\_\_\_\_ in accordance with the terms and conditions as printed on the reverse side of this form.

IMPORTANT  
SEE OTHER SIDE FOR TERMS & CONDITIONS  
ARRIVE LOCATION **8 2 90 05:00**

SERVICE ORDER RECEIPT  
I certify that the materials and services listed were authorized and received and all services performed in a workmanlike manner and that I have the authority to accept and execute this document.

JOB COMPLETION **8 2 90 13:00**

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

STATE **KANSAS** CODE COUNTY / PARISH **KEARNY** CODE CITY

WELL NAME AND NUMBER / JOB SITE **WAECHTER G.U. L 3HI** LOCATION AND POOL / PLANT ADDRESS SHIPPED VIA **D.S.**

ITEM/PRICE REF. NO.	MATERIAL EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
049102 - 000	DELIVERY CHARGE	T/M	330	.80	264.00
049100 - 000	SERVICE CHARGE	CU'	406	1.08	438.48
056011 - 054	CENTRALIZERS	EA	5	54.00	270.00
049013 - 000	CLASS "C" FERT	SK	251	7.00	1757.00
045008 - 000	POZ FERT	CU'	124	2.30	285.20
045014 - 050	D20 FERT	LB	1854	.13	241.02
044013 - 015	D29 FERT	LB	94	1.38	129.72
<b>ORDER TOTAL</b>					
<b>3384.48</b>					

Field Est - ~~3334.48~~ **3334.48**

RECEIVED  
STATE CORPORATION COMMISSION  
NOV 1 1990  
SUB TOTAL **2132.23**

LICENSE/REIMBURSEMENT FEE CONSERVATION DIVISION  
LICENSE/REIMBURSEMENT FEE Wichita, KS

REMARKS: **3700**  
STATE % TAX ON \$ **71.81**  
COUNTY % TAX ON \$ **1689.66**  
CITY % TAX ON \$ **16.90**  
SIGNATURE OF DSI REPRESENTATIVE **Gary W. Harris** TOTAL \$ **2220.94**

CEMENTING SERVICE REPORT

DS-496 PRINTED IN U.S.A.

ORIGINAL **DS**  
DOWELL SCHLUMBERGER INCORPORATED

15-093-21079-0000

TREATMENT NUMBER 03-12-2887 DATE 08-2-90  
STAGE 285 DISTRICT Ulysses, KS

WELL NAME AND NO. <b>WAECHTER G.U. L# 3</b>		LOCATION (LEGAL)		RIG NAME: <b>CHEYENNE # 2</b>	
FIELD-POOL <b>HUGOTON</b>		FORMATION <b>CHASE</b>		WELL DATA:	
COUNTY/PARISH <b>KEARNY</b>		STATE <b>KANSAS</b>		API. NO.	
NAME <b>CHEYENNE DRILLING</b>		WELL DATA:		BOTTOM	
AND		BIT SIZE <b>7 7/8</b>		CSG/Liner Size <b>5 1/2</b>	
ADDRESS		TOTAL DEPTH		WEIGHT <b>15.5</b>	
ZIP CODE		<input checked="" type="checkbox"/> ROT <input type="checkbox"/> CABLE		FOOTAGE <b>2563.87</b>	
SPECIAL INSTRUCTIONS		MUD TYPE		GRADE	
<b>To Cement 5 1/2" Production Casing to a depth of + 2600</b>		<input type="checkbox"/> BHST		THREAD <b>8-rod</b>	
		<input type="checkbox"/> BHCT <b>95</b>		LESS FOOTAGE SHOE JOINT(S)	
		MUD DENSITY		MUD VISC.	
		MUD VISC.		Disp. Capacity <b>61</b>	
		NOTE: Include Footage From Ground Level To Head In Disp. Capacity		TOTAL <b>61</b>	
		Head & Plugs		SQUEEZE JOB	
		<input type="checkbox"/> Double		SIZE	
		<input checked="" type="checkbox"/> Single		<input type="checkbox"/> WEIGHT	
		<input type="checkbox"/> Swage		<input type="checkbox"/> GRADE	
		<input type="checkbox"/> Knockoff		<input type="checkbox"/> THREAD	
		IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		LIFT PRESSURE <b>1672</b> PSI	
		PRESSURE LIMIT <b>2000</b> PSI		BUMP PLUG TO <b>500 over</b> PSI	
		ROTATE <input type="checkbox"/> RPM		RECIPROCATATE <input type="checkbox"/> FT	
		No. of Centralizers <b>5</b>			

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME:	DATE:	TIME:	DATE:
0001 to 2400											
11:04	-	2200	0	0	-	H <sub>2</sub> O	8.34				
11:07	-	0	10	0	3	H <sub>2</sub> O	8.34				
11:10	-	160	264	10	5.81	CMT	12.2				
11:54	-	50	34	274	5.81	CMT	14.8				
12:03	-	0	0	308	-	-	-				
12:06	-	90	51	308	4.14	H <sub>2</sub> O	8.34				
12:19	-	500	10	359	1.79	H <sub>2</sub> O	8.34				
12:28	-	1080	-	369	-	-	-				
12:29	-	-	-	-	-	-	-				
12:30	-	-	-	-	-	-	-				
LEAD CMT AVG. Pressure 160 PSI Avg. Rate 5.84											
TAIL CMT AVG. Pressure 60 PSI Avg. Rate 4.37											

REMARKS At 11:02 Packer ordered At Pressure of 1280 PSI

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSIT
1	675	2.1	(35/65) P <sub>02</sub> /class a + 6% O <sub>20</sub> + 1/4 #/sk O <sub>29</sub>				253	12.
2								
3	120	1.32	CLASS a + 1/4 #/sk O <sub>29</sub>				28	14.
4								
5								
6								

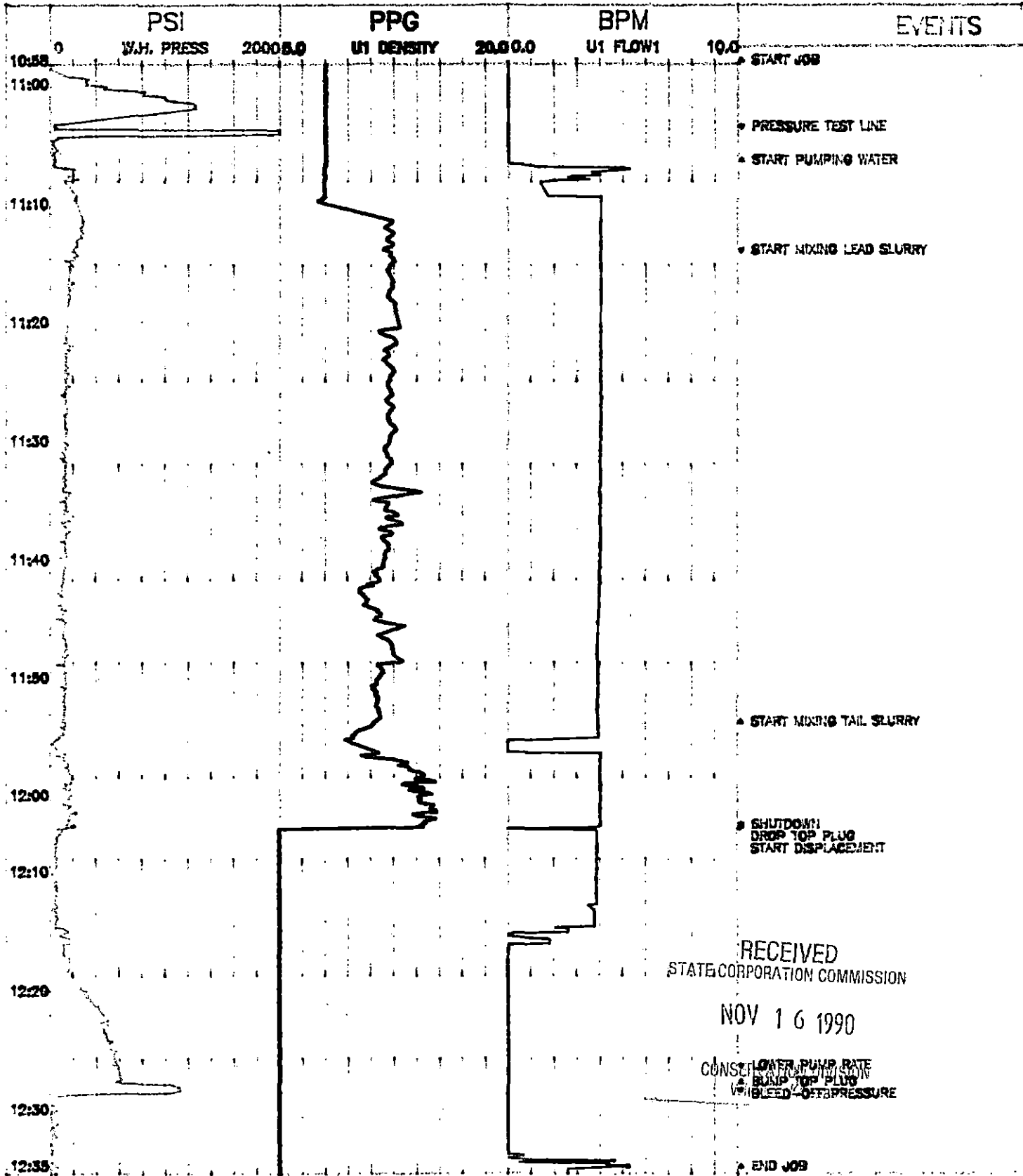
BREAKDOWN FLUID TYPE		VOLUME		DENSITY		PRESSURE		MAX.		MIN:	
<input type="checkbox"/> HESITATION SO		<input type="checkbox"/> RUNNING SO		CIRCULATION LOST		<input type="checkbox"/> YES <input type="checkbox"/> NO		Cement Circulated To Surf. <input type="checkbox"/> YES <input type="checkbox"/> NO			
BREAKDOWN		PSI		FINAL		PSI		DISPLACEMENT VOL.		61 Bbls	
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO		TO		FT		MEASURED DISPLACEMENT <input checked="" type="checkbox"/>		<input type="checkbox"/> WIRELINE		TYPE OF WELL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS	
PERFORATIONS		TO		TO		CUSTOMER REPRESENTATIVE		DS SUPERVISOR			
						Jack Pepper		James Wilkins			

# PACR PLOT ORIGINAL



CHEYENNE DRILLING  
WAECHTER G.U. L3  
CHEYENNE 2  
HUGOTON

ULYSSES, KS  
LONGSTRING  
285  
08-2-90



RECEIVED  
STATE CORPORATION COMMISSION

NOV 16 1990

CONSULTANT PUMP RATE  
BUMP TOP PLUG  
BLEED-OFF PRESSURE

# DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

ORIGINAL

8-23

15-093-21679-0000

OILFIELD SERVICES INDUSTRIAL SERVICES

DSI SERVICE ORDER RECEIPT AND INVOICE NO:  
**03-12-2976**

ORIGINAL

DSI SERVICE LOCATION NAME AND NUMBER  
**OKS 03-12**

CUSTOMER NUMBER CUSTOMER P.O. NUMBER TYPE SERVICE CODE BUSINESS CODES

CUSTOMER'S NAME

**AMOCO**

ADDRESS CITY, STATE AND ZIP CODE

WORKOVER NEW WELL OTHER  W  N  API OR IC NUMBER

ARRIVE LOCATION MO. DAY YR. TIME  
**7 30 90 1900**

SERVICE ORDER RECEIPT  
I certify that the materials and services listed were authorized and received and all services performed in a workmanlike manner and that I have the authority to accept and execute this document.

JOB COMPLETION MO. DAY YR. TIME  
**7 30 90 2330**

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

STATE **KANSAS** CODE COUNTY / PARISH **Kearney** CODE CITY

WELL NAME AND NUMBER / JOB SITE **WHEELER G.V. L #3HT** LOCATION AND POOL / PLANT ADDRESS SHIPPED VIA **D.S.**

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
057499-001	THREAD LOCK	EA	1	22.00	22.00
056015-085	BAKLE PLATE	EA	1	70.00	70.00
056011-085	CENTRALIZERS	EA	2	68.00	136.00
<p>RECEIVED STATE CORPORATION NOV 16 1990 CONSERVATION DIVISION Wichita, Kansas</p>					

228.00

SUB TOTAL **152.76**

LICENSE/REIMBURSEMENT FEE

REMARKS: STATE % TAX ON \$ COUNTY % TAX ON \$ CITY % TAX ON \$

SIGNATURE OF DSI REPRESENTATIVE **Larry W. Harris** TOTAL \$ **160.77**

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CEMENTING SERVICE REPORT

ORIGINAL

15-093-21079-6800

TREATMENT NUMBER 03 12 2880 DATE 7/30/90  
 STAGE DS DISTRICT 03 12

DS-498 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

WELL NAME AND NO. WAECHTER "L" #3 H1 LOCATION (LEGAL) SEC. A-245-36W RIG NAME: CHEYENNE #2  
 FIELD-POOL HUECTON FORMATION  
 COUNTY/PARISH KEARNEY STATE KS APL. NO.  
 NAME CHEYENNE DRILLING  
 ADDRESS  
 ZIP CODE  
 SPECIAL INSTRUCTIONS EQUIPMENT: MATERIALS  
 To Use 9.3/8 SURFACE CASING  
 IS CASING/TUBING SECURED?  YES  NO  
 LIFT PRESSURE 223 PSI CASING WEIGHT - SURFACE AREA (3.14 x R<sup>2</sup>)  
 PRESSURE LIMIT PSI BUMP PLUG TO 470 PSI  
 ROTATE RPM RECIPROCATE FT No. of Centralizers 2  
 Head & Plugs  TBG  D.P. SQUEEZE JOB  
 Double  SIZE  WEIGHT  GRADE  THREAD  
 Single  GRADE  THREAD  
 Swage  GRADE  THREAD  
 Knockoff  NEW  USED  
 TOP DR DW  DEPTH  
 BOT DR DW  DEPTH  
 WELLS DATA: BIT SIZE 12 1/4 CSG/Liner Size 9.3/8 TOTAL DEPTH 787 WEIGHT 24.0  
 ROT  CABLE FOOTAGE 773.86  
 MUD TYPE GRADE K55  
 BHST  BHCT THREAD 8RD  
 MUD DENSITY LESS FOOTAGE SHOE JOINT(S) 79.659  
 MUD VISC. Disp. Capacity 48  
 NOTE: Include Footage From Ground Level To Head In Disp. Capacity  
 Float TYPE BAFFLE PLATE DEPTH 756.59  
 SILENCE TYPE TEXAS PATTERN DEPTH 773.86  
 TOOL TYPE DEPTH  
 TAIL PIPE: SIZE DEPTH  
 TUBING VOLUME B  
 CASING VOL. BELOW TOOL B  
 TOTAL E  
 ANNUAL VOLUME B

TIME 0001 to 2400	PRESSURE LBS/IN <sup>2</sup>		VOLUME PUMPED BBL		JOB SCHEDULED FOR TIME: ASAP DATE: 7/30/90			ARRIVE ON LOCATION TIME: 1900 DATE: 7/30/90		LEFT LOCATION TIME: 00:30 DATE: 7/31/90	
	TBG-OB-D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL			
22:27	2230					H2O	8.34	PRE-JOB SAFETY MEETING PSI TEST LINES			
22:30		60	10		2	H2O	8.34	START H2O AHEAD			
22:33		150	94	10	5	CMT	12.4	START LEAD CMT			
22:48		80	35	104	4	CMT	14.8	START TAIL CMT			
23:00		10		139				SHUT DOWN			
23:04		0						DROP PLUG			
23:04		30	48	139	4	H2O	9.34	START DISPLACEMENT			
23:11		220		187	2	H2O	8.34	LOWER RATE			
23:14		230			0	H2O	8.34	LOWER RATE			
23:19		460		187	0	H2O	8.31	BUMP PLUG			
23:22								CHECK FLOAT - SHUT IN HEAD			
23:24								END JOB			

REMARKS

SYSTEM CODE	NO OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		RECEIVED	SLURRY MIXED BBL	DEN
1.	250	2.1	35/105 70% + 6% 1000 + 30% 51 + 1/4" 12.29		11/11/90	35	15
2.	150	1.32	CLASS C + 30% 51 + 1/4" 12.29		11/11/90	35	15
3.							
4.			LEAD AVG RATE 5 BPM - AVG PSI 100				
5.			TAIL AVG RATE 5 BPM - AVG PSI 20				
6.							

BREAKDOWN FLUID TYPE  HESITATION SQ.  RUNNING SQ. VOLUME CIRCULATION LOST  YES  NO  
 PRESSURE MAX. MIN. Cement Circulated To Surf.  YES  NO 32-45 LB  
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 418 Bbls TYPE OF WELL  OIL  STORAGE  BRINE WATER  
 GAS  INJECTION  WILDCAT  
 Washed Thru Perls  YES  NO TO FT MEASURED DISPLACEMENT  WIRELINE  
 PERFORATIONS TO TO CUSTOMER REPRESENTATIVE DS SUPERVISOR

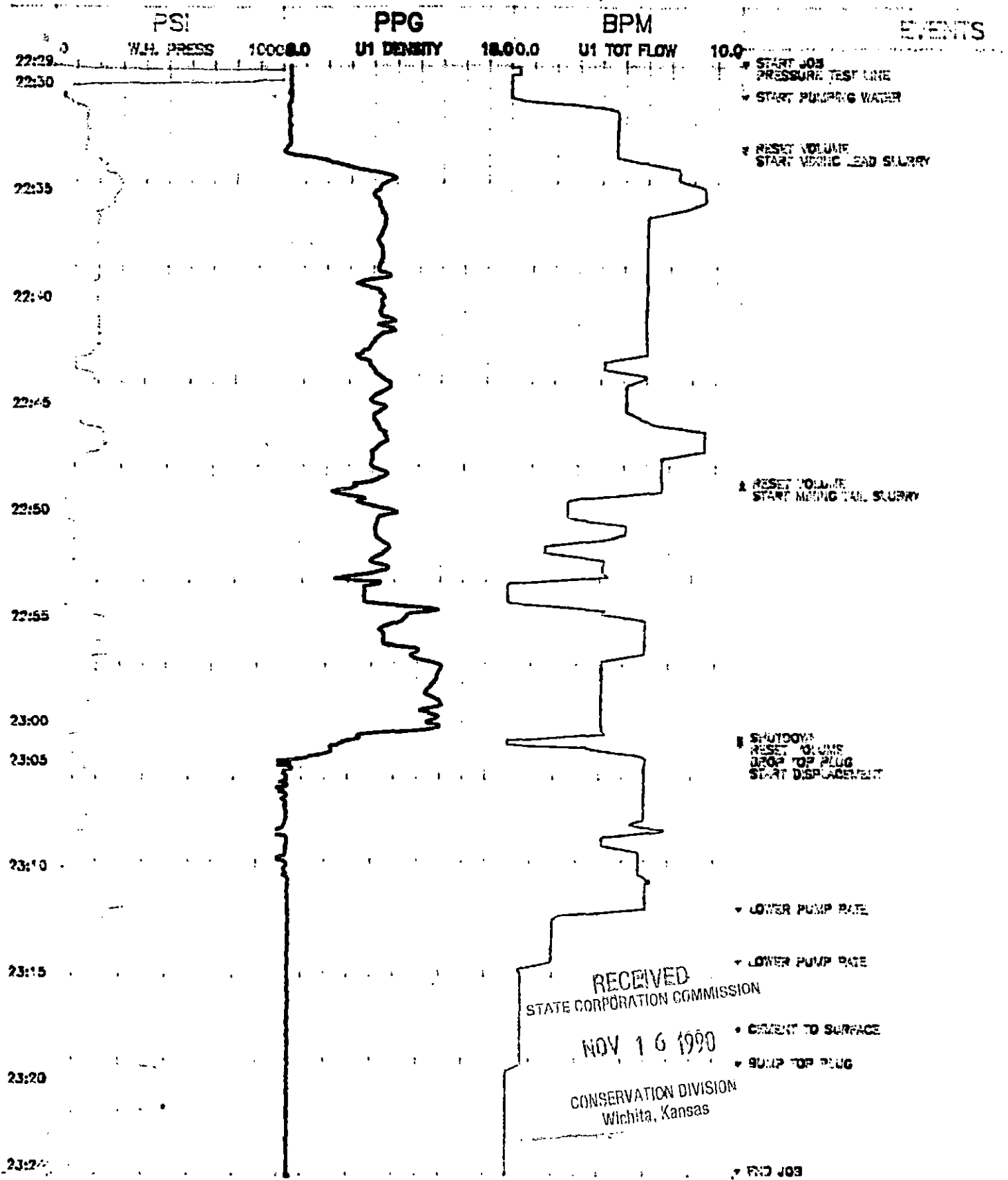
# PACR PLOT

# ORIGINAL



CHEYENNE DRILLING  
WASCHER L BHT  
CHEYENNE 2  
HUGOTON

0312  
271  
2880  
7:30:90



RECEIVED  
STATE CORPORATION COMMISSION

NOV 16 1990

CONSERVATION DIVISION  
Wichita, Kansas