

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

Operator: License # 5447

Name: OXY USA Inc.

Address P. O. Box 300

City/State/Zip Tulsa, OK 74102-0300

Purchaser: EKGGG

Operator Contact Person: Raymond Hui

Phone ( 918 ) 561-3548

Contractor: Name: Cheyenne Drilling Co.

License: 5382'

Wellsite Geologist: None on site

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SICW  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  PBSD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

4-1-97 4-3-97 5-29-97  
 Spud Date Date Reached TD Completion Date

API NO. 15-129-214950000

County Morton

W/2 - W/2. SE/4 Sec. 7 Twp. 32 Rge. 39 X <sup>E</sup>/<sub>W</sub>

1320 FSL Feet from S (circle one) Line of Section

2550 FEL Feet from E (circle one) Line of Section

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

Lease Name Renshaw A Well # 4

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3284' KB \_\_\_\_\_

Total Depth 2750' PBSD 2732'

Amount of Surface Pipe Set and Cemented at 595' 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.

Drilling Fluid Management Plan Att. 1, 9-8-98 etc.  
(Data must be collected from the Reserve Pit)

Chloride content 3200 ppm Fluid volume 800 bbls

Dewatering method used Evaporation

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 Raymond Hui

Title Analyst Date 6-25-97

Subscribed and sworn to before me this 25th day of June, 1997

Notary Public Laura Anne Wells

Date Commission Expires 9-22-97

K.C.C. OFFICE USE ONLY

F  Letter of Confidentiality Attached  
 C  Wireline Log Received  
 C  Geologist Report Received

KCC  KGS Distribution  SWD/Rep  Plug  NGPA  Other (Specify)

Operator Name OXY USA Inc. Lease Name Renshaw A Well # 4

Sec. 7 Twp. 32S Rge. 39  East  West  
 County Morotn

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

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
 (Submit Copy.)

List All E.Logs Run:  
 Ran open hole logs

Log Formation (Top), Depth and Datums  Sample

Name	Top	Datum
Herr	2420	2424
Kri	2452	2456
Win	2504	2508
Tow	2572	2576
Ft Riley	2614	2618

**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	595'	CL A	270 sx	3% cc
Production	7 7/8"	5 1/2"	14	2746'	CL A	410 sx	2% cc

**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
2	2420-2618'	Acidized w/2000 gal 7 1/2%	
		HCL	
		Rac'd w/67500 gel	

**TUBING RECORD** Size 2 3/8" Set At 2614 Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. Pump Testing 5-29-97 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		209			

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 \_\_\_\_\_



**HALLIBURTON ENERGY SERVICES**  
HAL-1906-P

CHARGE TO: OKLAHOMA INC.  
ADDRESS:  
CITY, STATE, ZIP CODE:

FIELD COPY

TICKET  
No. **185797-7**

PAGE 1 OF 2

SERVICE LOCATIONS <u>1. 15-10-08 US</u> <u>2. 15-10-08 US</u> <u>3. 1</u> <u>4.</u>	WELL/PROJECT NO. <u>4</u>	LEASE <u>RENSHAW A</u>	COUNTY/PARISH <u>MOORE</u>	STATE <u>KS</u>	CITY/OFFSHORE LOCATION	DATE <u>4-3-97</u>	OWNER <u>GAME</u>
TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTRACTOR <u>CHEYENNE DRILLING</u>	RIG NAME/NO <u># 8</u>	SHIPPED VIA <u>ST</u>	DELIVERED TO <u>LOCATION</u>	ORDER NO.	
WELL TYPE	WELL CATEGORY <u>01</u>	WELL PURPOSE <u>035</u>	WELL PERMIT NO.	WELL LOCATION <u>LAND</u>			
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	
<u>201-111</u>					MILEAGE	<u>184</u>	<u>MI</u>	<u>3</u>	<u>20</u>	<u>368</u>
<u>201-112</u>					<u>CRUISE MILEAGE</u>	<u>124</u>	<u>MI</u>	<u>1</u>	<u>95</u>	<u>211</u>
<u>201-211</u>					<u>PUMP HEADS</u>	<u>1746</u>	<u>FT</u>	<u>168</u>	<u>100</u>	<u>1180</u>
<u>12A</u>	<u>215 19251</u>				<u>PIPE SIZE</u>	<u>5 1/2</u>	<u>IN</u>	<u>1</u>	<u>121</u>	<u>121</u>
<u>40</u>	<u>215 19251</u>				<u>INTEREST FLOAT VALUE</u>	<u>5 1/2</u>	<u>IN</u>	<u>1</u>	<u>131</u>	<u>131</u>
<u>27</u>	<u>215 19311</u>				<u>FILLUP ASSEMBLY</u>	<u>5 1/2</u>	<u>IN</u>	<u>1</u>	<u>67</u>	<u>67</u>
<u>41</u>	<u>216 32202</u>				<u>PENTRAZINES</u>	<u>5 1/2</u>	<u>IN</u>	<u>10</u>	<u>60</u>	<u>600</u>
<u>371</u>	<u>216 71423</u>				<u>CONCRETE PUMPER</u>	<u>5 1/2</u>	<u>IN</u>	<u>1</u>	<u>114</u>	<u>114</u>
<u>03-118</u>					<u>T-D PUMPS</u>	<u>5 1/2</u>	<u>IN</u>	<u>1</u>	<u>179</u>	<u>179</u>
<u>005-135</u>					<u>PORTABLE DATA ACQUISITION SYSTEM</u>	<u>1</u>	<u>EA</u>	<u>1</u>	<u>660</u>	<u>660</u>
<u>217-165</u>					<u>CLAVEX II</u>	<u>3</u>	<u>EA</u>	<u>30</u>	<u>150</u>	<u>450</u>
<u>218-217</u>					<u>ESD-1</u>	<u>3</u>	<u>EA</u>	<u>33</u>	<u>20</u>	<u>660</u>

ORIGINAL

**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**

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	PAGE TOTAL <u>434</u>
BEAN SIZE	SPACERS		FROM CONTINUATION PAGE(S) <u>111</u>
TYPE OF EQUALIZING SUB.	CASING PRESSURE		SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE <u>37.5</u>
TUBING SIZE	TUBING PRESSURE		WELL DEPTH <u>111</u>
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) <u>C.A. LITTLE</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <b>X</b>	HALLIBURTON OPERATOR/ENGINEER <u>JANIS NOLAN</u>	EMP # <u>2005</u>	HALLIBURTON APPROVAL
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## TERMS AND CONDITIONS

(1295)

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 not recovered or is irreparable, Customer shall pay the replacement cost, unless such loss is caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, this agreement will constitute Customer's written agreement under 10 CFR Sec. 39.15 (a) that Customer shall be responsible for meeting all requirements of 10 CFR Sec. 39.15 and any other applicable laws or regulations concerning retrieval, monitoring, decontamination and abandonment, and Customer shall permit Halliburton to observe the recovery or abandonment efforts, all without risk or expense 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. **THESE 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** 4239-5

TICKET #	TICKET DATE
BDA / STATE	COUNTY
PSL DEPARTMENT	
CUSTOMER REP / PHONE	
API / UWI #	15129214950000
DEPARTMENT	JOB PURPOSE CODE
SEC / TWP / RNG	

REGION	North America	NW/COUNTRY	
MBU ID / EMP #		EMPLOYEE NAME	
LOCATION		COMPANY	
TICKET AMOUNT		WELL TYPE	
WELL LOCATION		DEPARTMENT	
LEASE / WELL #		SEC / TWP / RNG	

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
J. WACHS		H 9434					
T. ...	62573						
	H3456						
	H4817						

**ORIGINAL**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0300							CALLED OUT
	0615							ON LOCATION - LDDP
	0932							RIG UP TO CIRCULATE TO PIT
	1003	4	12		✓			1500 Pump MUD FLUSH
	1036	5.8	163		✓			300/200 Pump HEAD CEMENT - 11.1"
	1034	6.8	41		✓			150/200 Pump TAIL CEMENT - 13.2"
	1040							SHUT DOWN CLEAN PUMP TRUCK - DROP PLUG
	1044	8.1	51		✓			Pump Displacement - H <sub>2</sub> O
	1051	2	10		✓			SLOW DOWN LAST 10 BRLS
	1056							PLUG LANDED - FLOAT
								CIRCULATED 100 SKS CEMENT TO PIT.

THANK YOU FOR (CALL) HALLIBURTON



JOB SUMMARY 4239-1

TICKET # 185797 TICKET DATE 4-3-97

REGION North America NVA/COUNTRY MID CONTINENT USA BDA / STATE MIDCONTINENT KS COUNTY MORTON
MBU ID / EMP # L1 104 EMPLOYEE NAME JASON NICHOLAS PSL DEPARTMENT CEMENT
LOCATION LABERAL KS COMPANY OXY USA CUSTOMER REP / PHONE
TICKET AMOUNT WELL TYPE OR API / UWI #
WELL LOCATION LAND DEPARTMENT CEMENT 5001 JOB PURPOSE CODE 035
LEASE / WELL # RENSHAW A SEC / TWP / RNG. 7 32S 39W

Table with 4 columns: HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS, HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS, HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS, HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS. Includes names like J NICHOLAS, J WOODROW, E CHANCE, S TELFORD.

Table with 8 columns: HES UNIT NUMBERS, R/T MILES, HES UNIT NUMBERS, R/T MILES, HES UNIT NUMBERS, R/T MILES, HES UNIT NUMBERS, R/T MILES. Includes values like 420044, 124, 53554-76900, 124, 50737-75817, 30, 4461-6611, 30.

ORIGINAL

Form Name Type:
Form Thickness From To
Packer Type Set At
Bottom Hole Temp. Pressure
Misc. Data Total Depth

TOOLS AND ACCESSORIES table with columns TYPE AND SIZE, QTY, MAKE. Includes items like Float Collar, Guide Shoe, Centralizers, Bottom Plug, Top Plug, Head, Packer, Other Filler Ass.

MATERIALS table with columns Treat Fluid, Density, Lb/Gal, Disp. Fluid, Density, Lb/Gal, Prop. Type, Size, Lb., Acid Type, Gal., %, Surfactant, Gal., In., NE Agent, Gal., In., Fluid Loss, Gal/Lb, In., Gelling Agent, Gal/Lb, In., Fric. Red., Gal/Lb, In., Breaker, Gal/Lb, In., Blocking Agent, Gal/Lb, Qty., Perfpac Balls, Qty., Other.

Table with 5 columns: DATE, CALLED OUT, ON LOCATION, JOB STARTED, JOB COMPLETED. Includes times like 0800, 0615, 1003, 1056.

WELL DATA table with columns NEW/USED, WEIGHT, SIZE, FROM, TO, MAX ALLOW. Includes Casing, Liner, Tbg/D.P., Open Hole, Perforations, SHOTS/FT.

HOURS ON LOCATION and OPERATING HOURS tables with columns DATE, HOURS. Includes a DESCRIPTION OF JOB section with 5/2 LOADSTRING.

HYDRAULIC HORSEPOWER, AVERAGE RATES IN BPM, CEMENT LEFT IN PIPE, Reason. Includes values like 13.66, 13.66, 3HOE JOINT.

CEMENT DATA table with columns STAGE, SACKS, CEMENT, BULK/SKS, ADDITIVES, YIELD, LBS/GAL. Includes LEAD and TAIL stages with additives like 2% PAC12, 4 PPS FLOCULE.

Circulating Displacement 67 H2O Preflush: Gal (BB) 12 Type FLUSH
Breakdown Maximum Load & Bkdn: Gal - BB
Average Frac Gradient Treatment Gal - BB Disp: BB - Gal 17
Shut-in: Instant 5 Min 15 Min Cement Slurr Gal - BB 163 - 11.1 41 - 13.2
Total Volume Gal (BB) 253

Frac Ring #1, #2, #3, #4. THE INFORMATION STATED HEREIN IS CORRECT. CUSTOMER'S REPRESENTATIVE SIGNATURE



**HALLIBURTON ENERGY SERVICES**

HAL-1906-P

CHARGE TO  
*Oxy U.S.A.*

ADDRESS

CITY, STATE, ZIP CODE

CUSTOMER COPY

TICKET

No.

183828-.7

PAGE 1 OF 2

SERVICE LOCATIONS 1. <i>025540 L288A1</i>	WELL/PROJECT NO <i>4</i>	LEASE <i>RENSHAW A</i>	COUNTY/PARISH <i>Morton</i>	STATE <i>Ks</i>	CITY/OFFSHORE LOCATION	DATE <i>4-1-97</i>	OWNER <i>Same</i>
2. <i>025535 Hugo 101</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <i>CITICORP Dals</i>	RIG NAME/NO <i>28</i>	SHIPPED VIA <i>Truck</i>	DELIVERED TO <i>LOCATION</i>	ORDER NO
3.	WELL TYPE <i>02</i>	WELL CATEGORY <i>01</i>	JOB PURPOSE <i>010</i>	WELL PERMIT NO <i>15129214950000</i>	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT	
		LOC	ACCT	DF		U/M	U/M				
<i>000-117</i>					MILEAGE	<i>1</i>	<i>U</i>	<i>124</i>	<i>m</i>	<i>3.20</i>	<i>396.80</i>
<i>000-119</i>					CREW MILEAGE	<i>1</i>	<i>U</i>	<i>124</i>	<i>m</i>	<i>1.95</i>	<i>241.80</i>
<i>001-016</i>					Pump Charge <i>500-1000'</i>	<i>6</i>	<i>HR</i>	<i>500</i>	<i>/1000 FT</i>		<i>1029.00</i>
<i>030-016</i>					5-WIPER TOP PLUG	<i>8 5/8</i>	<i>IN</i>	<i>1</i>	<i>EA</i>		<i>225.00</i>
<i>045-050</i>					PORTABLE DATA ACQUISITION	<i>1</i>	<i>JOB</i>	<i>1</i>	<i>EA</i>		<i>660.00</i>
<i>24 A</i>	<i>81519502</i>				INSERT FLOAT VALVE	<i>8 5/8</i>	<i>IN</i>	<i>1</i>	<i>EA</i>		<i>188.00</i>
<i>27</i>	<i>815-19414</i>				FILL ASSEMBLY	<i>8 5/8</i>	<i>IN</i>	<i>1</i>	<i>EA</i>		<i>70.00</i>
<i>41</i>	<i>806-61048</i>				CENTRALIZERS	<i>8 5/8</i>	<i>IN</i>	<i>3</i>	<i>EA</i>	<i>68.00</i>	<i>204.00</i>
<i>66</i>	<i>806-72750</i>				FAS GRIP	<i>8 5/8</i>	<i>IN</i>	<i>1</i>	<i>EA</i>		<i>23.50</i>
<i>320</i>	<i>806-71460</i>				CANVAS CMT BASKETT	<i>8 5/8</i>	<i>IN</i>	<i>1</i>	<i>EA</i>		<i>139.00</i>
<i>350</i>	<i>890-10802</i>				WELD-A	<i>1</i>	<i>lb</i>	<i>1</i>	<i>EA</i>		<i>16.70</i>

ORIGINAL

<p><b>LEGAL TERMS:</b> Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, <b>PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY</b> provisions.</p> <p>MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS</p> <p><b>X</b></p> <p>DATE SIGNED _____ TIME SIGNED _____ <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.</p> <p><input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection), <input type="checkbox"/> Not offered</p>	<p>SUB SURFACE SAFETY VALVE WAS:</p> <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		<p><b>SURVEY</b></p> <p>AGREE <input type="checkbox"/> UN-DECIDED <input type="checkbox"/> DIS-AGREE <input type="checkbox"/></p>		<p>PAGE TOTAL <i>3189.85</i></p> <p>FROM CONTINUATION PAGE(S) <i>5025 821</i></p> <p><i>8215 65</i></p> <p>SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE</p>
	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	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO		
		<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)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
<i>X</i>	<i>Robert Elwood</i>	<i>Robert Elwood</i>	<i>D-4360</i>	

## TERMS AND CONDITIONS

(1295)

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 not recovered or is irreparable, Customer shall pay the replacement cost, unless such loss is caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, this agreement will constitute Customer's written agreement under 10 CFR Sec. 39.15 (a) that Customer shall be responsible for meeting all requirements of 10 CFR Sec. 39.15 and any other applicable laws or regulations concerning retrieval, monitoring, decontamination and abandonment, and Customer shall permit Halliburton to observe the recovery or abandonment efforts, all without risk or expense 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 forwarding 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.









CEMENT CALL SHEET

ORIGINAL



RECEIVED  
KAROL CORP COMM

COMPANY OXY USA, INC CONTRACTOR CHEYENNE DRILLING RIG 8 DATE 3/31/97

LEASE 9 P 2-20 Renshaw A WELL NO. 4 FORMATION Chase FIELD Hugoton

SECTION 7 OWNSHI 32S RANGE 38W COUNTY Morton STATE KS

API NO. 15129214950000 MILEAGE PUMPS 124 MILEAGE BULK 30

DIRECTIONS Rolla, KS Intersection HWY 81 & HWY 68: 9 3/4 N, 3 E, 1N, 1/2 W, N into  
or Dermott School, 4 S, 1/2W, N into

LOCATION: 1320' F8L, 2550' FEL GL ELEV. 3284 KB ELEV. 3290

CSG O.D.	<u>5.5"</u>	DEPTH	<u>-2800</u>	TBG O.D.		PKR TYPE		HOLE SIZ	<u>7 7/8</u>	MUD WEIGHT	
WEIGHT	<u>14#</u>	PBTD	<u>-2750</u>	WEIGHT		PKR DPTH		DEPTH	<u>-2800</u>	TOP PLUG	<u>5 Wiper</u>
GRADE	<u>J-55</u>	MSC DEPTH		GRADE		SWEDGE		EXCESS	<u>135%</u>	BOTTOM PLUG	
PLUG CONTAINER	<u>Yes</u>	SWAGE	<u>Yes</u>	CASING SWIVEL		THREAD					
SURFACE		INTERMEDIATE		LONG STRING		1 stage	<u>PLUG BACK</u>				
PLUG TO ABANDON		SQUEEZE		LINER		OTHER					

REMARKS:

SPACER OR FLUSH Mudflush QUANTIT 800 Gallons REMARKS

	CEMENT	TYPE	ADDITIVES	H2O	DENSITY	YIELD	
L	<u>285</u>	SACKS	<u>Midcon Prem Plus</u>	<u>2% CaCl2, 1/4 PPS Flocele</u>	<u>20.17</u>	<u>11.1</u>	<u>3.22</u>
T	<u>125</u>	SACKS	<u>Midcon Prem Plus</u>	<u>2% CaCl2, 1/4 PPS Flocele</u>	<u>9.87</u>	<u>13.2</u>	<u>1.84</u>
		SACKS					
		SACKS					
		SACKS					
		SACKS					

OTHER

QUANTIT 3 gal TYPE CLAYFIX II REMARKS 1 GPT IN DISPLACEMENT  
 QUANTIT 3 gal TYPE BSO-21 REMARKS 1 GPT IN DISPLACEMENT  
 QUANTIT 1 lb TYPE BE-6 REMARKS IN DISPLACEMENT

REMARK RECORD DENSITY, RATE, PSI ON STRIP CHART, NOTE CEMENT RETURNS ON JOB LOG

TICKET COPY TO WILLSON

SALES ITEMS

CSG OD. 5 1/2 WEIGHT 14 GRADE K-55 THREAD 8 RD FILLUP ASSEMBLY 1-816.18315  
 GUIDE SHOE 1-825.205 FLOAT SHOE FLOAT COLLAR INSERT FLOAT VALVE 1-815.19251  
 CENTRALIZERS 10-808.60022 SIZE 5.517.875 TYPE  
 WALL SCRATCHERS TYPE MSC TOOL  
 LIMIT CLAMPS WELD A MSC PLUG SET  
 CEMENT BASKET 1-808.71430 OTHER

REMARK Cheyenne Drilling Rig 8 Phone 3148-272-2032

ORDERED BY Cal Wylie O) 828-4227 M) 828-0433 H) 897-2478

CALL TAKEN BY WILLSON DISCOUN CMT 41%, FE 32%

SERVICE SUPERVISOR Woody CHANCE JASON

TIME OF CALL

TIME READY 0700 4-3-97

TIME LEFT

HALLIBURTON ENERGY SERVICES  
UNIPRO II, Strip Chart Version 2.0

CUSTOMER AND JOB INFORMATION

Customer	:	_____	Date	:	_____
Contractor	:	_____	Country	:	_____
Lease	:	_____	Town	:	_____
Location	:	_____	Section	:	_____
Formation	:	_____	Range	:	_____
Job Type	:	_____	Permit No	:	_____
Country	:	_____	Well No	:	_____
State	:	_____	Field Name:	:	_____
Customer Rep	:	_____	Ticket No.:	:	_____

REMARKS ABOUT JOB

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NOTICE: THIS REPORT IS BASED ON SOUND ENGINEERING PRACTICES, BUT BECAUSE OF VARIABLE WELL CONDITIONS AND OTHER INFORMATION WHICH MUST BE RELIED UPON, HALLIBURTON MAKES NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ACCURACY OF THE DATA OR OF ANY CALCULATIONS OR OPINIONS EXPRESSED HEREIN. YOU AGREE THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DUE TO NEGLIGENCE OR OTHERWISE ARISING OUT OF OR IN CONNECTION WITH SUCH DATA, CALCULATIONS OR OPINIONS.

ORIGINAL

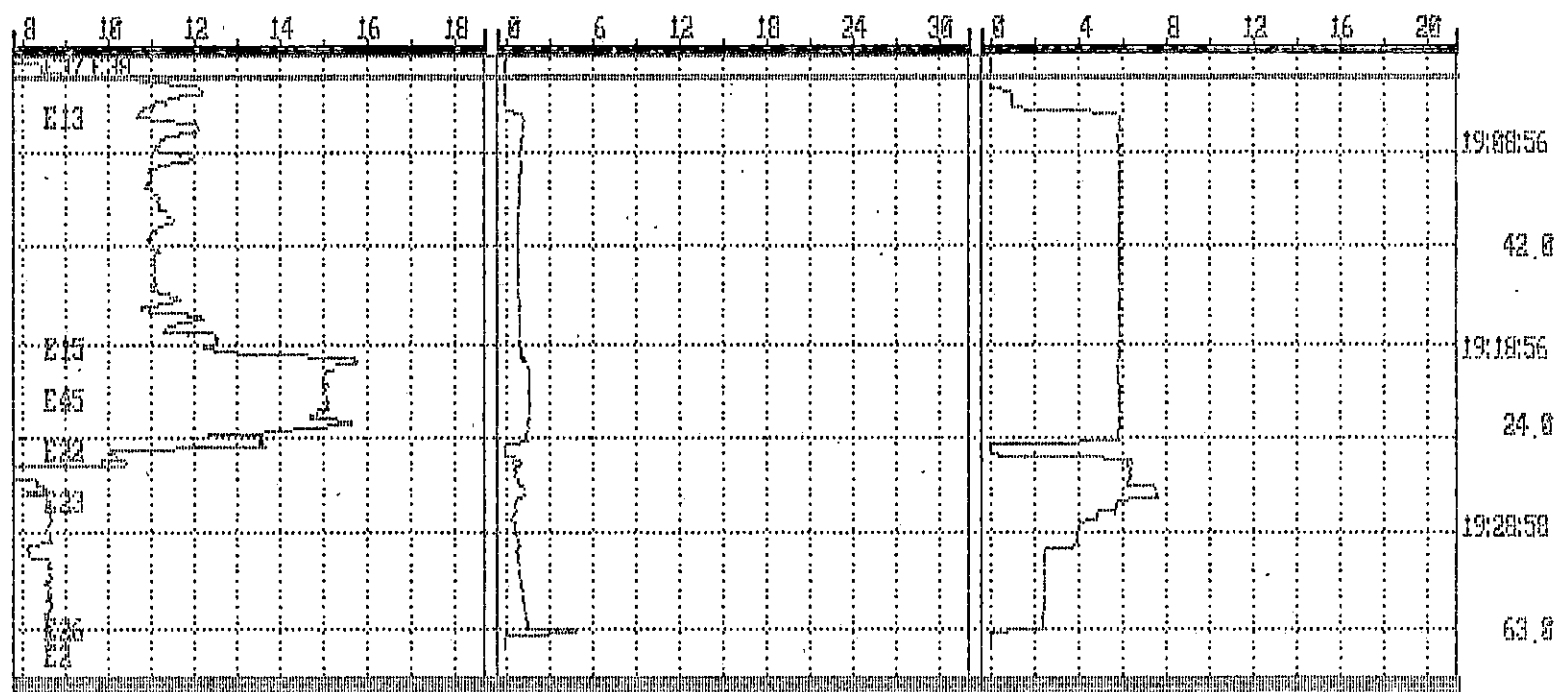
UNIPRO II  
 PLAYBACK STRIP CHART

TIME SCALE: 5 Minutes/Division

CHART 1  
 DENSITY  
 PPG x 1

CHART 2  
 PRESSURE  
 psi x 100

CHART 3  
 RATE  
 bpmC x 1



-----  
JOB SUMMARY:  
-----

START TIME 18:58:49 START DATE 04/01/97

EVENT SUMMARY:

EVENT	1	Start Job	=>	18:58:49
EVENT	37	Pause	=>	18:59:13
EVENT	38	Resume	=>	19:04:27
EVENT	13	Pump Lead Cement	=>	19:06:56
EVENT	15	Pump Tail Cement	=>	19:19:37
EVENT	4	Other	=>	19:22:23
EVENT	15	Pump Tail Cement	=>	19:22:33
EVENT	22	Drop Top Plug	=>	19:24:06
EVENT	23	Pump Displacement	=>	19:27:38
EVENT	26	Bump Plug	=>	19:34:11
EVENT	2	End Job	=>	19:35:01

-----  
AVERAGE VALUES:

	Chart 1 (ppg)	Chart 2 (psi)	Chart 3 (bpmC)	Chart 4	Chart 5
STAGE 1 ==>	-0.08	-10.00	0.00		
STAGE 2 ==>	0.00	0.00	0.00		
STAGE 3 ==>	10.59	-10.40	0.47		
STAGE 4 ==>	11.35	89.33	5.81		
STAGE 5 ==>	15.11	147.65	5.79		
STAGE 6 ==>	15.07	155.00	5.81		
STAGE 7 ==>	14.36	148.22	5.80		
STAGE 8 ==>	8.51	64.24	5.11		
STAGE 9 ==>	8.57	102.43	3.05		
STAGE 10==>	8.61	48.00	0.00		

-----  
VOLUMES/TOTALS:

TOTAL 1 ==	STAGE 1 ==>	0.00	bb1C
	STAGE 2 ==>	0.00	bb1C
	STAGE 3 ==>	1.00	bb1C
	STAGE 4 ==>	74.00	bb1C
	STAGE 5 ==>	15.00	bb1C
	STAGE 6 ==>	16.00	bb1C
	STAGE 7 ==>	24.00	bb1C
	STAGE 8 ==>	42.00	bb1C
	STAGE 9 ==>	63.00	bb1C
	STAGE 10 ==>	63.00	bb1C

-----  
JOB DURATION 0:36:12

STOP TIME 19:35:01 STOP DATE 04/01/97  
-----

CUSTOMER AND JOB INFORMATION

Customer	:	_____	Date	:	_____
Contractor	:	_____	Country	:	_____
Lease	:	_____	Town	:	_____
Location	:	_____	Section	:	_____
Formation	:	_____	Layer	:	_____
Job Type	:	_____	Permit No.	:	_____
Country	:	_____	Well No.	:	_____
State	:	_____	Field Name	:	_____
Customer Rep	:	_____	Ticket No.	:	_____

REMARKS ABOUT JOB

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOTICE: THIS REPORT IS BASED ON SOUND ENGINEERING PRACTICES, BUT BECAUSE OF UNUSUAL WELL CONDITIONS AND OTHER UNEXPECTED  
CIRCUMSTANCES, HALLIBURTON MAKES NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ACCURACY OF THE DATA OR AS TO THE  
RESULTS EXPRESSED HEREIN. YOU AGREE THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE WHATSOEVER  
WHICH MAY BE CAUSED BY OR IN CONNECTION WITH SUCH DATA, CALCULATIONS OR OPINIONS.



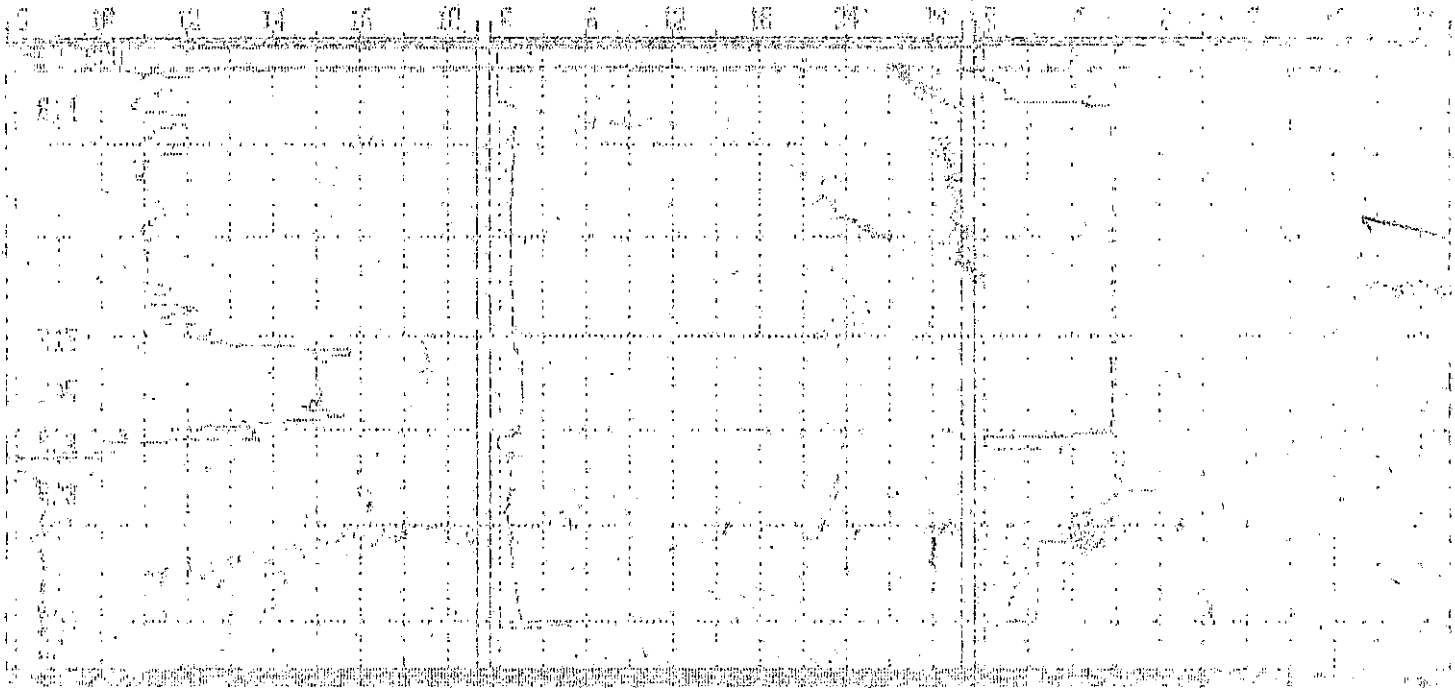
UNIPED II  
PLAYBACK STRIP CHART

5 Winsas/Wins. lcv

CHART 1  
SENSITIVITY  
1

CHART 2  
PRESSURE  
1 x 100

CHART 3  
TEMP  
1



100 SUMMARY

START TIME 13:55:26 START DATE 01/01/72

EVENT SUMMARY

EVENT	1	Start Job	=>	13:55:26
EVENT	27	Pause	=>	13:59:13
EVENT	38	Resume	=>	14:04:27
EVENT	13	Pump Lead Cement	=>	14:06:56
EVENT	15	Pump Tail Cement	=>	14:19:37
EVENT	4	Other	=>	14:22:27
EVENT	15	Pump Tail Cement	=>	14:27:22
EVENT	22	Drop Top Plug	=>	14:24:06
EVENT	23	Pump Displacement	=>	14:27:30
EVENT	24	Bump Plug	=>	14:54:11
EVENT	2	End Job	=>	14:55:01

STAGE VALUES

	Chart 1 (ppg)	Chart 2 (psi)	Chart 3 (bpmC)	Chart 4	Chart 5
STAGE 1 ==>	0.00	10.00	0.00		
STAGE 2 ==>	0.00	0.00	0.00		
STAGE 3 ==>	10.59	10.60	0.47		
STAGE 4 ==>	11.29	39.33	5.91		
STAGE 5 ==>	15.11	137.65	5.79		
STAGE 6 ==>	15.07	135.00	5.81		
STAGE 7 ==>	14.36	140.27	5.80		
STAGE 8 ==>	8.51	64.24	5.11		
STAGE 9 ==>	8.57	102.43	3.05		
STAGE 10 ==>	8.61	42.00	0.00		

WELLBORE TOTALS:

TOTAL 1	STAGE 1 ==>	0.00	bb/c
	STAGE 2 ==>	0.00	bb/c
	STAGE 3 ==>	1.06	bb/c
	STAGE 4 ==>	74.60	bb/c
	STAGE 5 ==>	15.00	bb/c
	STAGE 6 ==>	16.00	bb/c
	STAGE 7 ==>	24.00	bb/c
	STAGE 8 ==>	42.00	bb/c
	STAGE 9 ==>	63.00	bb/c
	STAGE 10 ==>	63.00	bb/c

ELAPSED TIME 0:36:12

STOP TIME 14:35:01 STOP DATE 01/01/72