

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

④

Operator: License # 5447

Name: OXY USA Inc.

Address P. O. Box 300

City/State/Zip Tulsa, Ok 74102-0300

Purchaser: PEPI

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 SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

4-16-96 4-16-96 6-11-96
Spud Date Date Reached TD Completion Date

API NO. 15-189-22064 **ORIGINAL**

County Stevens

NW NE- NW Sec. 6 Twp. 34S Rge. 35

4680 FSL Feet from (circle one) Line of Section

3303 FEL Feet from (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
XX, or XX (circle one)

Lease Name Heger A Well # 2

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3014 KB _____

Total Depth 2880 PBTD 2850'

Amount of Surface Pipe Set and Cemented at 683' 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 cmc.

Drilling Fluid Management Plan ALT I 9/27 5-12-97
(Data must be collected from the Reserve Pit)

Chloride content 1800 ppm Fluid volume 2500 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. _____

RECEIVED
KANSAS CORPORATION
MAY 10 1997

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

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

Signature Raymond Hui

Title Staff Analyst Date 7-8-96

Subscribed and sworn to before me this 8th day of July, 19 96.

Notary Public Shirley Anne Wells

Date Commission Expires 9-22-97

| | | |
|-------------------------------------|-------------------------------------|--|
| K.C.C. OFFICE USE ONLY | | |
| F | <input checked="" type="checkbox"/> | Letter of Confidentiality Attached |
| C | <input checked="" type="checkbox"/> | Wireline Log Received |
| C | <input type="checkbox"/> | Geologist Report Received |
| Distribution | | |
| <input checked="" type="checkbox"/> | KCC | <input type="checkbox"/> SWD/Rep |
| <input type="checkbox"/> | KGS | <input type="checkbox"/> Plug |
| <input type="checkbox"/> | | <input type="checkbox"/> NGPA |
| <input type="checkbox"/> | | <input type="checkbox"/> Other (Specify) |

Operator Name OXY USA, Inc.
 Sec. 6 Twp. 34S Rge. 35

Lease Name Heger A Well # 2
 County Stevens

East
 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.)
 List All E.Logs Run:
Ran Cased Hole log

| Name | Formation (Top), Depth and Datums | |
|------------|-----------------------------------|-------|
| | Top | Datum |
| Hollenberg | 2666 | 361 |
| Herington | 2702 | 325 |
| Krider | 2728 | 299 |
| Winfield | 2786 | 241 |

| 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" | 28 28 | 683 | CL A | 260 | 2%cc |
| Production | 7 7/8" | 5 1/2" | 14 | 2870 | CL A | 490 | 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 | |
|----------------|--|--|------------------------------------|
| | | 1 | 2668-72; 2680-84; 2704-10; 2756-59 |
| | | Frac'd w/10,500 gal | |

| TUBING RECORD | | Size | Set At | Packer At | Liner Run |
|--|-----------|---|-------------|---------------|---|
| | | 2 3/8" | 2791' | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumed Production, SWD or Inj. | | Producing Method | | | |
| 6-11-96 | | <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) | | | |
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
| | | 175 | | | |

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: 2668'-2684'
2704'-2759'



HALLIBURTON ENERGY SERVICES

HAL-1906-N

CHARGE TO: *Oxy USA*
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

CUSTOMER COPY

TICKET

No. **921497 - 5**

PAGE **1** OF _____

| | | | | | | | |
|-------------------|---|--|-----------------|-----------------|------------------------|----------------|-------------|
| SERVICE LOCATIONS | WELL/PROJECT NO. | LEASE | COUNTY/PARISH | STATE | CITY/OFFSHORE LOCATION | DATE | OWNER |
| 1. <i>Liberal</i> | <i>2</i> | <i>Heger "A"</i> | <i>St Johns</i> | <i>KS</i> | | <i>4-17-98</i> | <i>Same</i> |
| 2. <i>Hugoton</i> | TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES | NITROGEN JOB? <input type="checkbox"/> YES <input type="checkbox"/> NO | CONTRACTOR | RIG NAME/NO. | SHIPPED VIA | DELIVERED TO | ORDER NO. |
| 3. | | | | | <i>Has Loc NW</i> | | |
| 4. | WELL TYPE | WELL CATEGORY | JOB PURPOSE | WELL PERMIT NO. | WELL LOCATION | | |
| REFERRAL LOCATION | INVOICE INSTRUCTIONS | | | | | | |

ORIGINAL

| PRICE REFERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING | | | DESCRIPTION | QTY. | | UNIT PRICE | | AMOUNT |
|-----------------|-------------------------------------|------------|------|------------|---------------------|--------------|------------|------------|-------------|----------------|
| | | LOC | ACCT | DF | | QTY. | U/M | QTY. | U/M | |
| <i>000-117</i> | | | | <i>55</i> | MILEAGE | <i>47</i> | <i>mi</i> | | <i>2.85</i> | <i>119.70</i> |
| <i>000-119</i> | | | | | <i>Crew Mileage</i> | <i>47</i> | <i>mi</i> | | <i>1.50</i> | <i>63.00</i> |
| <i>01-016</i> | | | | | <i>Pump Charge</i> | <i>2871</i> | <i>FT</i> | <i>6</i> | | <i>1455.00</i> |
| <i>17A</i> | <i>875.205</i> | | | <i>32</i> | <i>Coiled Slng</i> | <i>5 1/2</i> | <i>in</i> | <i>1</i> | <i>EA</i> | <i>121.00</i> |
| <i>24A</i> | <i>815.19251</i> | | | | <i>Insert Float</i> | <i>5 1/2</i> | <i>in</i> | <i>1</i> | <i>EA</i> | <i>110.00</i> |
| <i>27</i> | <i>815.19311</i> | | | | <i>FILL ASSY</i> | | | <i>1</i> | <i>EA</i> | <i>89.00</i> |
| <i>40</i> | <i>806.60077</i> | | | | <i>Centralizer</i> | <i>5 1/2</i> | <i>in</i> | <i>10</i> | <i>EA</i> | <i>60.00</i> |
| <i>32a</i> | <i>806.71430</i> | | | <i>32</i> | <i>Basket</i> | <i>5 1/2</i> | <i>in</i> | <i>1</i> | <i>EA</i> | <i>104.00</i> |
| <i>030-016</i> | <i>407.1505</i> | | | <i>405</i> | <i>Top Plug</i> | <i>5 1/2</i> | <i>in</i> | | | <i>60.00</i> |
| <i>313-396</i> | | | | | <i>BE-6</i> | <i>1</i> | <i>Lb</i> | | | <i>70.00</i> |
| <i>719-517</i> | | | | | <i>SSO-21</i> | <i>1</i> | <i>901</i> | <i>3</i> | <i>EA</i> | <i>17.00</i> |
| <i>218-738</i> | | | | | <i>Clay Fix II</i> | <i>1</i> | <i>901</i> | <i>3</i> | <i>EA</i> | <i>28.00</i> |

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 _____

BEAN SIZE _____ SPACERS _____

TYPE OF EQUALIZING SUB. _____ CASING PRESSURE _____

TUBING SIZE _____ TUBING PRESSURE _____ WELL DEPTH _____

TREE CONNECTION _____ TYPE VALVE _____

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 | <i>2906</i> | <i>70</i> |
| FROM CONTINUATION PAGE(S) | <i>10156</i> | <i>87</i> |
| | <i>13063</i> | <i>57</i> |
| 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) <i>Col. G. M. Co.</i> | CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X | HALLIBURTON OPERATOR/ENGINEER <i>Ron Crust</i> | EMP # <i>07653</i> | HALLIBURTON APPROVAL <i>Orville Anderson</i> |
|--|--|---|-----------------------|---|

TERMS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

JOB LOG HAL-2013-C

| CUSTOMER | | WELL NO. | LEASE | JOB TYPE | TICKET NO. | | | |
|-----------|------|------------|--------------------|----------|------------|----------------|--------|--|
| HXY | | 7 | Horton A | 035 | 171497 | | | |
| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
| | | | | T | C | TUBING | CASING | |
| | 0900 | | | | | | | Called out ORIGINAL |
| | 1130 | | | | | | | on location |
| | 1305 | | | | | | | Run Csg |
| | 1430 | | | | | | | Csg Run Hook To Cement |
| | 1456 | | | | | | | Hook To Cement |
| | 1500 | | | | | 0-32 | | START Lead mud flush |
| | 1508 | 2 | 10 | | | | | and flush Pumped Shut in |
| | 1510 | 7 | 7 | | | | | Plug Bit & Mouse Holes |
| | 1520 | | | | | | | 0-4000 START Lead Cement |
| | 1550 | 6.3 | 710 | | | | | Unworked cement Pumped Start Tail |
| | 1556 | 6.3 | 33 | | | | | Tail Pumped Shut in Plug |
| | 1600 | | | | | | | 0-6000 START Displacement |
| | 1610 | 5 | 430 | | | | | Slow Rate |
| | 1613 | | 6 | | | | | 500-1000 Pump Plug |
| | | | | | | | | Thanks |
| | | | | | | | | Paul Crist |

 RECEIVED
 KANSAS CORPORATION COMMISSION

SEP 03 1976

 CONSERVATION DIVISION
 WICHITA, KS



HALLIBURTON

JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Midcontinent
Liberal

BILLED ON TICKET NO. 921497

WELL DATA

FIELD _____ SEC. 6 TWP. 34S RNG. 35W COUNTY Steven 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 | <u>N</u> | <u>74</u> | <u>5 1/2</u> | <u>KB</u> | <u>2871</u> | |
| LINER | | | | | | |
| TUBING | | | | | | |
| OPEN HOLE | | | | | | SHOTS/FT. |
| PERFORATIONS | | | | | | |
| PERFORATIONS | | | | | | |
| PERFORATIONS | | | | | | |

JOB DATA

| CALLS OUT | ON LOCATION | JOB STARTED | JOB COMPLETED |
|---------------------|---------------------|---------------------|---------------------|
| DATE <u>4-18-96</u> | DATE <u>4-18-96</u> | DATE <u>4-18-96</u> | DATE <u>4-18-96</u> |
| TIME <u>0700</u> | TIME <u>1120</u> | TIME <u>1420</u> | TIME |

TOOLS AND ACCESSORIES

| TYPE AND SIZE | QTY. | MAKE |
|-----------------------------------|-----------|------|
| FLOAT COLLAR <u>Insout 4 1/2"</u> | <u>1</u> | |
| FLOAT SHOE | | |
| GUIDE SHOE <u>Reg</u> | | |
| CENTRALIZERS <u>5-4</u> | <u>10</u> | |
| BOTTOM PLUG | | |
| TOP PLUG <u>6W</u> | <u>1</u> | |
| HEAD <u>12.0PC</u> | <u>1</u> | |
| PACKER | | |
| OTHER <u>Rasket</u> | | |

PERSONNEL AND SERVICE UNITS

| NAME | UNIT NO. & TYPE | LOCATION |
|-----------------------|-----------------|----------|
| <u>Ron Crist</u> | <u>420049</u> | |
| <u>07653</u> | | |
| <u>Chris Conrath</u> | <u>52947</u> | |
| <u>62569</u> | <u>75496</u> | |
| <u>Richard Tolson</u> | <u>4115</u> | |
| <u>E 3770</u> | <u>75237</u> | |
| <u>Calvin Loy</u> | <u>50727</u> | |
| | <u>611</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 5001
 DESCRIPTION OF JOB 035

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR Ron Crist COPIES REQUESTED _____

CEMENT DATA

| STAGE | NUMBER OF SACKS | CEMENT | BRAND | BULK SACKED | ADDITIVES | YIELD CU.FT./SK. | MIXED LBS./GAL. |
|-------|-----------------|---------------|-------|-------------|--------------------------|------------------|-----------------|
| | <u>390</u> | <u>Midcon</u> | | <u>B</u> | <u>2% CC, 1/2# Flocc</u> | <u>3.22</u> | <u>11.1</u> |
| | <u>100</u> | <u>"</u> | | <u>B</u> | <u>" 1/2# Flocc</u> | <u>1.84</u> | <u>13.7</u> |

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 14.95 REASON Shoe Joint

SUMMARY

PRESLUSH: BBL.-GAL. 420 TYPE mud flush
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____
 CEMENT SLURRY: BBL.-GAL. 223 CC 37
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS

Circulated 19 BBLs 0.337 SKs To Pit

RECEIVED
 CORPORATION COMMISSION
 CONSERVATION DIVISION
 WICHITA, KS

CUSTOMER _____
 LEASE Hepler A
 WELL NO. 2
 JOB TYPE 035
 DATE 4-18-96



HALLIBURTON ENERGY SERVICES

HAL-1906-N

CHARGE TO: Oxy U.S.A.
 ADDRESS:
 CITY, STATE, ZIP CODE:

DUNCAN COPY

TICKET

No. **920043 - 3**

PAGE 1 OF 2

| | | | | | | | |
|--------------------------|---|--------------------------------|-------------------------------|------------------------|------------------------------|---------------------|-------------------|
| 1. <u>025540 LIBERAL</u> | WELL/PROJECT NO. <u>A-2</u> | LEASE <u>HEGER</u> | COUNTY/PARISH <u>STEVEN'S</u> | STATE <u>Ks</u> | CITY/OFFSHORE LOCATION | DATE <u>4-16-96</u> | OWNER <u>SAME</u> |
| 2. <u>025535 Hopton</u> | TICKET TYPE <input checked="" type="checkbox"/> SERVICE JOB? <input type="checkbox"/> YES <input type="checkbox"/> SALES <input checked="" type="checkbox"/> NO | CONTRACTOR <u>CHERONE DRIG</u> | RIG NAME/NO. <u>#4</u> | SHIPPED VIA <u>HES</u> | DELIVERED TO <u>LOCATION</u> | ORDER NO. | |
| 3. | WELL TYPE | WELL CATEGORY | JOB PURPOSE | WELL PERMIT NO. | WELL LOCATION | | |
| 4. | <u>02</u> | <u>01</u> | <u>010</u> | | | | |
| REFERRAL LOCATION | INVOICE INSTRUCTIONS | | | | | | |

MISSOURI
 SEP 0 1996
 CONSERVATION
 DIVISION
 WELLS

| PRICE REFERENCE | SECONDARY REFERENCE/PART NUMBER | ACCOUNTING | | | DESCRIPTION | QTY. | | U/M | | UNIT PRICE | AMOUNT |
|-----------------|---------------------------------|------------|------|-----|----------------------|-------|----|-----|----|------------|--------|
| | | LOC | ACCT | DF | | | | | | | |
| 000-117 | | ORIGINAL | | 405 | MILEAGE | 1 | U | 40 | mi | 2.85 | 114.00 |
| 000-119 | | ORIGINAL | | | CREW MILEAGE | 1 | U | 40 | mi | 1.50 | 60.00 |
| 001-016 | | ORIGINAL | | | PUMP CHARGE | 1 | HR | 690 | FT | | 890.00 |
| 030-018 | 402-15781 | ORIGINAL | | | SWEEPER TOP PLUG | 8 3/8 | IN | 1 | EA | | 130.00 |
| 597 | 825-1266 | ORIGINAL | | 32 | 8 3/8 Baffle (FIBER) | 8 3/8 | IN | 1 | EA | | 91.00 |
| 41 | 806-101048 | ORIGINAL | | | CENTRALIZERS | 8 3/8 | IN | 3 | EA | 61.00 | 183.00 |
| 320 | 806-71460 | ORIGINAL | | | CANNON CMT BASKET | 8 3/8 | IN | 1 | EA | | 122.00 |
| 350 | 890-10802 | ORIGINAL | | | WELD-A | 1 | IN | 1 | EA | | 16.75 |

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

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 | OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? | AGREE | UN-DECIDED | DIS-AGREE | PAGE TOTAL | 1606 | 75 |
| BEAN SIZE | SPACERS | | | | | | WE UNDERSTOOD AND MET YOUR NEEDS? | FROM CONTINUATION PAGE(S) |
| 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? | | | | | | |
| | WELL DEPTH | ARE YOU SATISFIED WITH OUR SERVICE? | <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | | |
| TREE CONNECTION | TYPE VALVE | <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND | | | | | | |

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) <u>Cal. Wylie</u> | CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>X</u> | HALLIBURTON OPERATOR/ENGINEER <u>ROBERT EWING</u> | EMP #. <u>0.4360</u> | HALLIBURTON APPROVAL <u>Orville Anderson 9-5</u> |
|--|--|--|-------------------------|---|

TERMS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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



JOB LOG HAL-2013-C

DATE 4-16-96 PAGE NO. 1

CUSTOMER Oxy 1) S.A. WELL NO. A-2 LEASE HEGER JOB TYPE 8 3/4 SURFACE TICKET NO. 920043

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|-------|------------|--------------------|-------|---|----------------|--------|--|
| | | | | T | C | TUBING | CASING | |
| | 13:30 | | | | | | | CAME OUT READY 17:30 |
| | 17:00 | | | | | | | OUT LOC. RIG TO 2:4 |
| | 17:50 | | | | | | | START CSP |
| | 19:15 | | | | | | | CSP ON BOTTOM ORIGINAL |
| | 19:20 | | | | | | | HOOD UP CIRC WITH RIG |
| | 19:20 | | | | | | | SARBY MEETING |
| | 19:30 | | | | | | | HOOD TO HALLIBURTON |
| | 19:33 | | | | | | 2000 | PRESSURE TEST PUMPS & LEADS |
| | 19:35 | 7 | 91.7 | | | | 75 | START LEAD CUT @ 11.1 #/gal |
| | 19:47 | 4.7 | 23.5 | | | | 75 | START TAIL CUT @ 14.2 #/gal |
| | 19:52 | | | | | | 0 | SHUT DOWN |
| | 19:53 | | | | | | 0 | DROP SENSITIVE TOP PLUG |
| | 19:54 | 3 | 40.5 | | | | 0 | START DISPLACEMENT WASH PUMPS & LEADS |
| | 20:07 | | | | | | 250 | PLUG DOWN |
| | 20:09 | | | | | | 250 | CLOSE TO WALK FOLD |
| | 20:10 | | | | | | 0 | RELEASE BACK |
| | 20:10 | | | | | | 0 | JOB COMPLETE |
| | 20:10 | | | | | | | WALK ON HEAD |
| | 20:10 | | | | | | | LEAVE LOCATION |

Circulated to P-t
25 43 SKS RECEIVED
KANSAS CORPORATION COMMISSION

SEP 03 1996
CONSERVATION DIVISION
WICHITA, KS

THANK YOU FOR CALLING
HALLIBURTON
ROBERT & CREW



JOB SUMMARY

HALLIBURTON DIVISION Med Cont.
 HALLIBURTON LOCATION Liberal Ks

BILLED ON TICKET NO. 921043

WELL DATA

FIELD _____ SEC. 6 TWP. 34 S. RNG. 35 W. COUNTY Steedman 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 690

| | NEW USED | WEIGHT | SIZE | FROM | TO | MAXIMUM PSI ALLOWABLE |
|--------------|----------|--------|--------------|------|--------|-----------------------|
| CASING | 1 | 92 | 8 3/8 | KB | 689.24 | |
| LINER | | | | | | |
| TUBING | | | | | | |
| OPEN HOLE | | | 12 1/4" C.G. | | 690 | SHOTS/FT. |
| PERFORATIONS | | | | | | |
| PERFORATIONS | | | | | | |
| PERFORATIONS | | | | | | |

JOB DATA

TOOLS AND ACCESSORIES

| TYPE AND SIZE | QTY. | MAKE |
|---------------------------------|------|------|
| ELOAT COLLAR <u>ROCKE PLATE</u> | 1 | H |
| FLOAT SHOE | | O |
| GUIDE SHOE | | W |
| CENTRALIZERS <u>S.-4</u> | 3 | C |
| BOTTOM PLUG | | H O |
| TOP PLUG <u>S.-W.D. 200</u> | 1 | O |
| HEAD <u>OC PC</u> | 1 | W |
| PACKER <u>1200-D</u> | 1 | C |
| OTHER <u>Cont BASKET</u> | 1 | O |

| CALLED OUT | ON LOCATION | JOB STARTED | JOB COMPLETED |
|---------------------|---------------------|---------------------|---------------------|
| DATE <u>4-16-96</u> | DATE <u>4-16-96</u> | DATE <u>4-16-96</u> | DATE <u>4-16-96</u> |
| TIME <u>13:30</u> | TIME <u>17:00</u> | TIME <u>19:33</u> | TIME <u>20:10</u> |

PERSONNEL AND SERVICE UNITS

| NAME | UNIT NO. & TYPE | LOCATION |
|----------------------|-----------------|--------------------|
| <u>P. Elwood</u> | <u>420041</u> | <u>Liberal Ks</u> |
| <u>D. Magruder</u> | <u>D. 4360</u> | <u>"</u> |
| <u>D. Magruder</u> | <u>59276</u> | <u>"</u> |
| <u>D. Coopersing</u> | <u>G 1498</u> | <u>"</u> |
| | <u>4037</u> | <u>"</u> |
| | <u>H 2441</u> | <u>Hopewell Ks</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.
 PERFFAC BALLS TYPE _____ QTY.
 OTHER _____
 OTHER _____

DEPARTMENT SOOT Cont
 DESCRIPTION OF JOB 8 3/8 SURFACE
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X
 HALLIBURTON OPERATOR ROBERT ELWOOD COPIES REQUESTED _____

CEMENT DATA

| STAGE | NUMBER OF SACKS | CEMENT | BRAND | BULK SACKED | ADDITIVES | YIELD CU.FT./SK. | MIXED LBS./GAL. |
|-------|-----------------|-----------------|-----------|-------------|--------------------------------|------------------|-----------------|
| | <u>160</u> | <u>MTCOW PT</u> | <u>PT</u> | <u>B</u> | <u>3% C.C., 1/4 #/sk Flocc</u> | <u>3.21</u> | <u>11.1</u> |
| | <u>160</u> | <u>P</u> | | | <u>2% C.C., 1/4 #/sk Flocc</u> | <u>1.32</u> | <u>14.8</u> |

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 40.03 ± REASON SHOE JOINT

SUMMARY

PRESLUSH: BBL.-GAL. _____
 LOAD & BKDN: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____
 CEMENT SLURRY (BBL.-GAL.) 91.7 + 28.5 = 120.2
 TOTAL VOLUME: BBL.-GAL. _____

RECEIVED
 KANSAS CORPORATION
 OPERATIONAL DIVISION
 MISSOURI ST. 5

REMARKS
 OBSERVATION DIVISION
 WICHITA, KS

CUSTOMER 158
 LEASE 11650
 WELL NO. 1-2
 JOB TYPE 8 3/8 SURFACE
 DATE 4-16-96