

ORIGINAL

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

API NO. 15-129-21492-0000  
County Morton  
S/2 - N/2 - SE/4 Sec. 17 Twp. 32S Rge. 39 X <sup>E</sup> <sub>W</sub>

Operator: License # 5447

1765 FSL Feet from (SW) (circle one) Line of Section

Name: OXY USA Inc.

1320 FEL Feet from (EW) (circle one) Line of Section

Address P. O. Box 300

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

City/State/Zip Tulsa, OK 74102-0300

Lease Name Lautaret A Well # 3

Purchaser: None (Dry)

Field Name S. Kinsler

Operator Contact Persons: Raymond Hui

Producing Formation Dry

Phone (918) 561-3548

Elevation: Ground 3262 KB \_\_\_\_\_

Contractor: Name: Beredco Drilling Co.

Total Depth 6271 PBTB 2939

License: 5147

Amount of Surface Pipe Set and Cemented at 1724 Feet

Wellsite Geologist: None on site

Multiple Stage Cementing Collar Used? \_\_\_\_\_ Yes X No

Designate Type of Completion  
X New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover

If yes, show depth set \_\_\_\_\_ Feet

Oil \_\_\_\_\_ SWD \_\_\_\_\_ SIOW XXX Temp. Abd.  
Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW  
X Dry \_\_\_\_\_ Other (Core, WSW, Expl., Cathodic, etc)

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

If Workover:

Drilling Fluid Management Plan D&A JH 12-5-97  
(Data must be collected from the Reserve Mt)

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

Chloride content 3200 ppm Fluid volume 800 bbls

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

Dewatering method used Evaporation

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

Location of fluid disposal if hauled offsite: \_\_\_\_\_

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

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

2-3-97 2-17-97 2-17-97  
Spud Date Date Reached TD Completion Date

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 5-12-97

Subscribed and sworn to before me this 12th day of May, 1997.

Notary Public Karen Anne Wells

Date Commission Expires 9-22-97

G-23-97

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 checked="" 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"/> NGPA
		<input type="checkbox"/> Other
		(Specify)

Operator Name: COXY USA, Inc.

Lease Name Lautaret A

Well # 3

Sec. 17 Twp. 32S Rge. 39

East

County Morton

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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	St. Louis	6300	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
List All E.Logs Run:	Ran cased hole log <b>HIGH RESOLUTION INDUCTION COMPENSATED NEUTRON</b>			

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	24	1724'	CL A	510 sx	2% cc
Production	7 7/8"	5 1/2"	14	2957'	CL A	380 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	Spotted	50 sx CL H cmt	from 5485-5600'	Spotted 100sx CL H cmt
<input type="checkbox"/> Plug Off Zone	from 2940'			

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	
		Not Perforated		

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. Pump Testing <u>D&amp;A</u>	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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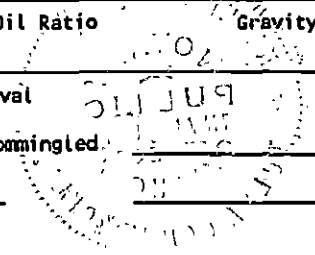
Estimated Production Per 24 Hours	Oil <u>N/A</u> Bbls.	Gas <u>N/A</u> Mcf	Water <u>N/A</u> Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas: **METHOD OF COMPLETION** **Production Interval**

Vented  Sold  Used on Lease (If vented, submit ACO-18.)

Open Hole  Perf.  Dually Comp.  Commingled

Other (Specify) \_\_\_\_\_





**HALLIBURTON ENERGY SERVICES**

HAL-1906-P

CHARGE TO: Oxy USA INC  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

CUSTOMER COPY

TICKET

185412 - 7

RECEIVED  
 KANSAS CORP COMM  
 1997 JUN 23

PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>Liberal 025540</u>	WELL/PROJECT NO. <u>3</u>	LEASE <u>LAUTERCT A</u>	COUNTY/PARISH <u>Morton</u>	STATE <u>KS</u>	CITY/OFFSHORE LOCATION <u>Rolla KS</u>	DATE <u>5/13/97</u>	OWNER <u>SAME</u>
2. <u>Hugoton 025535</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>Beredco Dily</u>	RIG NAME/NO. <u>Beredco Dily #1</u>	SHIPPED VIA <u>HES</u>	DELIVERED TO <u>Well site</u>	ORDER NO. <u>54</u>
3.	WELL TYPE <u>02</u>	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>010</u>	WELL PERMIT NO. <u>15129214920000</u>	WELL LOCATION <u>Land</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE		AMOUNT
		LOC	ACCT	DF								
000-117					MILEAGE	R/T	1	unit	122	mi	2.99	364.78
000-119					crew mileage	R/T	1	unit	122	mi	1.60	195.20
001-016					Pumping Charge		1726	FT	6	HR	1360.00	1360.00
030-018					Swiper Top Plug		8 3/8	in	1	CA	130.00	130.00
12A	825.212				Reg Guide SHos		"	"	"	"	216.00	216.00
24A	815.19502				INSCT FLOAT		"	"	"	"	221.00	221.00
27	815.19414				Kill Assy		"	"	"	"	64.00	64.00
66	806.75750				Fas Grip		"	"	"	"	21.00	21.00
320	806.71460				Cement Basket		"	"	"	"	124.00	124.00
41	806.61048				centralizers		"	"	4	CA	61.00	244.00
350	890.10802				weld-A		1	lb	1	CA	16.75	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

**X**

DATE SIGNED	TIME SIGNED	<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	<b>SURVEY</b>	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	2956 73
			TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			FROM CONTINUATION PAGE(S)	1084839
			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			SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	13804 78
I <input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered						<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) <u>Cal Wylie</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <b>X</b>	HALLIBURTON OPERATOR/ENGINEER <u>Thomas J. Mullins E0382</u>	EMP #	HALLIBURTON APPROVAL <u>Ron Crist</u>
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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.

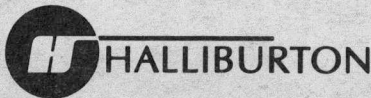
E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS 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 2-5-97 PAGE NO.

CUSTOMER Oxy WELL NO. 3 LEASE Lay Terret A JOB TYPE 010 TICKET NO. 185412

Table with columns: CHART NO., TIME, RATE (BPM), VOLUME (BBL) (GAL), PUMPS (T, C), PRESSURE (PSI) (TUBING, CASING), DESCRIPTION OF OPERATION AND MATERIALS. Includes handwritten entries for operations like 'Called out on loc Drilling', 'Pull Drill Pipe', 'Start case 8 7/8 24\"/>

Thank you for calling  
Halliburton Energy  
R Crist & Crew

ORIGINAL



# JOB SUMMARY

HALLIBURTON DIVISION MidcontinentHALLIBURTON LOCATION Liberal KS.BILLED ON TICKET NO. 785412

## WELL DATA

FIELD EAST Kingler SEC. 17 TWP. 33S RNG. 39W COUNTY Morton 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	N	24	8 3/8	KB	17264	
LINER						
TUBING						
OPEN HOLE			12 1/4		1725	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2/5/97</u>	DATE <u>2/6/97</u>	DATE <u>2/5/97</u>	DATE <u>2-5-97</u>
TIME <u>0900</u>	TIME <u>1300</u>	TIME <u>1659</u>	TIME <u>1835</u>

## TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>insult Fillassy</u>	<u>1</u>	<u>H</u>
FLOAT SHOE <u>8 7/8 FAS Grip</u>	<u>1</u>	<u>O W O</u>
GUIDE SHOE <u>8 7/8 Reg.</u>	<u>1</u>	<u>O W O</u>
CENTRALIZERS <u>8 7/8</u>	<u>4</u>	<u>O W O</u>
BOTTOM PLUG		<u>H O O</u>
TOP PLUG <u>Swiper 8 7/8</u>	<u>1</u>	<u>O W O</u>
HEAD <u>Q.C.P.C.</u>	<u>1</u>	<u>O W O</u>
PACKER <u>2 1/2 Cement Basket</u>	<u>1</u>	<u>O W O</u>
OTHER <u>Howco Wild-A</u>	<u>1</u>	<u>O W O</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 \_\_\_\_\_

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T. Mullins</u>	<u>52276</u>	<u>Liberal</u>
<u>E0382</u>	<u>7131</u>	<u>Liberal</u>
<u>R. CRIST</u>	<u>471045</u>	<u>Liberal</u>
<u>D 7563</u>		
<u>D. Corpaning</u>	<u>4037-</u>	<u>Hugoton</u>
<u>H2491</u>	<u>6612</u>	<u>Hugoton</u>
<u>C. Foid</u>	<u>50502</u>	<u>Hugoton</u>
<u>H 9437</u>	<u>25505</u>	<u>Hugoton</u>

DEPARTMENT 5001 Cement

DESCRIPTION OF JOB 8 7/8 Surface

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

CUSTOMER REPRESENTATIVE **X**

HALLIBURTON OPERATOR Thomas J. Mullins COPIES REQUESTED \_\_\_\_\_

Ron Crist

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>410</u>	<u>midcon Perm Plus</u>		<u>B</u>	<u>3% CaCl2, 1/2 1/2% Flocc</u>	<u>3.22</u>	<u>16.1</u>
	<u>100</u>	<u>Perm Plus</u>		<u>B</u>	<u>2% CaCl2, 1/4 1/2% Flocc</u>	<u>1.37</u>	<u>14.8</u>

## PRESSURES IN PSI

## SUMMARY

## VOLUMES

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

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

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL BBL.-GAL. 107.17

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. \_\_\_\_\_

HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. 258.62 bbls

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS Circulated 40 BBL 69 SKS TO P.I.T

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET 40.68' REASON Shot Joint

CUSTOMER

CUSTOMER: OK USA Inc. LEASE: UNIT 1 A WELL NO: 3 JOB TYPE: 8 7/8 Surface DATE: 2/5/97

CUSTOMER COPY

INVOICE



HALLIBURTON ENERGY SERVICES  
A Division of Halliburton Company

REMIT TO:  
P.O. BOX 951046  
DALLAS, TX 75395-1046  
Corporate FIN 73-0271280

INVOICE NO.	DATE
185412	02/05/1997

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
LAUTRETT 3 A-3	MORTON	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
LIBERAL	BEREDCO	CEMENT SURFACE CASING	02/05/1997
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
659167	CAL WYLIE	E-26	
			SHIPPED VIA
			COMPANY TRUCK
			FILE NO.
			20110

ORIGINAL

OXY USA INC.  
P.O. BOX 2528  
LIBERAL, KS 67905-2528

DIRECT CORRESPONDENCE TO:  
P O BOX 1598  
LIBERAL, KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	122 MI		2.99	363.78
		1 UNIT			
	DISCOUNT-(BID)	41.0 %			149.55
000-119	MILEAGE FOR CREW	122 MI		1.60	195.20
		1 UNIT			
	DISCOUNT-(BID)	41.0 %			80.01
001-016	CEMENTING CASING	1726 FT		1,850.00	1,360.00
		1 UNIT			
	DISCOUNT-(BID)	41.0 %			557.60
030-018	CEMENTING PLUG SW, PLASTIC TOP	8 5/8 IN		190.00	150.00 *
		1 EA			
	DISCOUNT-(BID)	41.0 %			58.30
12A 825,217	GUIDE SHOE - 8 5/8" BRD THD.	1 EA		216.00	216.00 *
	DISCOUNT-(BID)	32.0 %			69.12-
24A 815,19502	INSERT FLOAT VALVE - 8 5/8" BRD	1 EA		221.00	221.00 *
	DISCOUNT-(BID)	32.0 %			70.72-
27 815,19414	FILL-UP UNIT 7"- 8 5/8"	1 EA		64.00	64.00 *
	DISCOUNT-(BID)	32.0 %			20.48-
66 806,72750	CLAMP-LIMIT-8 5/8-FRICT-W/BOSS	1 EA		21.00	21.00 *
	DISCOUNT-(BID)	32.0 %			6.72-

*Service*  
*P.M. Wylie*

\*\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*\*

APPENDIX JOB (K)

TERMS: 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 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.



CUSTOMER COPY

REMIT TO:  
P.O. BOX 951044  
DALLAS, TX 75395-1044  
Corporate FIN 73-0271280



HALLIBURTON ENERGY SERVICES  
A Division of Halliburton Company

INVOICE

INVOICE NO.	DATE
185412	02/05/1997

WELL LEASE NO./PROJECT LAUTERE 3 - A-3		WELL/PROJECT LOCATION MORTON		STATE KS	OWNER SAME
SERVICE LOCATION LIBERAL		CONTRACTOR BEREDCO	JOB/PURPOSE CEMENT SURFACE CASING		TICKET DATE 02/05/1997
ACCT NO. 659167	CUSTOMER AGENT CAL WYLIE	VENDOR NO. E-26	CUSTOMER PO NUMBER	SHIPPED VIA COMPANY TRUCK	FILE NO. 20110

ORIGINAL

DIRECT CORRESPONDENCE TO:  
P O BOX 1598  
LIBERAL KS 67901

OXY USA INC.  
P.O. BOX 2528  
LIBERAL, KS 67905-2528

REFERENCE NO	DESCRIPTION	QUANTITY	UOM	UNIT PRICE	AMOUNT
320 806 71460	BASKET-CMT-8 5/8 CSD X 21"-SLP	1	EA	124.00	124.00 *
	DISCOUNT-(BID)	32.0 %			39.68-
41 806.61048	CENTRALIZER - 8-5/8 X 12-1/4	4	EA	61.00	244.00 *
	DISCOUNT-(BID)	32.0 %			78.08-
350 890.10802	HALLIBURTON WELD-A	1	EA	16.75	16.75 *
	DISCOUNT-(BID)	32.0 %			5.36-
504-050	CEMENT - PREMIUM PLUS	100	SK	14.01	1,401.00 *
	DISCOUNT-(BID)	41.0 %			574.41-
504-282	MIDCON-2 PREMIUM PLUS CEMENT	410	SK	17.06	6,994.60 *
	DISCOUNT-(BID)	41.0 %			2,867.78-
509-406	ANHYDROUS CALCIUM CHLORIDE	13	SK	40.75	529.75 *
	DISCOUNT-(BID)	41.0 %			217.19-
507-210	FLOCELE	230	LB	1.65	379.50 *
	DISCOUNT-(BID)	41.0 %			155.59-
500-207	BULK SERVICE CHARGE	571	CFT	1.35	770.85 *
	DISCOUNT-(BID)	41.0 %			316.04-
500-306	MILFAGE CMTG MAT DEL OR RETURN	735.89	TMI	1.05	772.68 *
	DISCOUNT-(BID)	41.0 %			316.79-
INVOICE SUBTOTAL					13,805.71

*AM White*

CONTINUED ON NEXT PAGE

AFFIX JOB TKT

TERMS: 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 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.

CUSTOMER COPY



REMIT TO:  
P.O. BOX 951046  
DALLAS, TX 75395-1046  
Corporate FIN 73-0271280

INVOICE

**HALLIBURTON ENERGY SERVICES**  
A Division of Halliburton Company

INVOICE NO.	DATE
185412	02/05/1997

WELL LEASE NO./PROJECT LAUTERET 3 <b>A-3</b>		WELL/PROJECT LOCATION MORTON		STATE KS	OWNER SAME
SERVICE LOCATION LIBERAL		CONTRACTOR BEREDCO	JOB PURPOSE CEMENT SURFACE CASING		TICKET DATE 02/05/1997
ACCT. NO. 659167	CUSTOMER AGENT CAL WYLIE	VENDOR NO. E-26	CUSTOMER P.O. NUMBER	SHIPPED VIA COMPANY TRUCK	FILE NO. 20110

**ORIGINAL**

DIRECT CORRESPONDENCE TO:

OXY USA INC.  
P.O. BOX 2528  
LIBERAL, KS 67905-2528

P O BOX 159B  
LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	DISCOUNT-(BID)				5,578.44
	INVOICE BID AMOUNT				8,226.67
	*-KANSAS STATE SALES TAX				347.60
	*-LIBERAL CITY SALES TAX				70.95
	*-SEWARD COUNTY SALES TAX				106.59
<b>INVOICE TOTAL - PLEASE PAY THIS AMOUNT</b>					<b>18,751.61</b>

*Amil*

ATTIX JOB TKY

TERMS: 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 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.



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

CHARGE TO:  
*Oxy USA INC*

ADDRESS

CITY, STATE, ZIP CODE

ORIGINAL - DUNCAN COPY TICKET

No. 185412 - 7

PAGE 1 OF 2

SERVICE LOCATIONS 1. <i>Liberal 025540</i>	WELL/PROJECT NO. <i>3</i>	LEASE <i>Lauterct A</i>	COUNTY/PARISH <i>Morton</i>	STATE <i>Ks</i>	CITY/OFFSHORE LOCATION <i>Rolla Ks</i>	DATE <i>2/5/97</i>	OWNER <i>SAME</i>
2. <i>Hugoton 025535</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>Beredco Drly</i>	RIG NAME/NO <i>Beredco Drly #1</i>	SHIPPED VIA <i>HES</i>	DELIVERED TO <i>Well site</i>	ORDER NO
3.	WELL TYPE <i>02</i>	WELL CATEGORY <i>01</i>	JOB PURPOSE <i>010</i>	WELL PERMIT NO <i>15129214920000</i>	WELL LOCATION <i>LAND</i>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT		
		LOC	ACCT	DF		U/M	U/M					
000-117				41	MILEAGE	R/T	1	UNIT	122	mi	2.99	364.78
000-119					crew mileage	R/T	1	unit	122	mi	1.60	195.20
001-016					Pumping Charge		1726	FT	6	HR	1360.00	1360.00
030-018				41	5 wiper Top Plug		8 5/8	in	1	CR	130.00	130.00
12A	825.217			32	Reg Guide Shoes		"	"	"	"	216.00	216.00
24A	815.19502			32	insect float		"	"	"	"	221.00	221.00
27	815.19414			32	Kill Assy		"	"	"	"	64.00	64.00
66	806.72750			32	Fas Grip		"	"	"	"	21.00	21.00
320	806.71460			32	Cement Basket		"	"	"	"	124.00	124.00
41	806.61048			32	centralizers		"	"	4	CR	61.00	244.00
350	890.10802			32	weld-A		1	lb	1	CR	16.75	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

**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	

<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 *2956 73*

FROM CONTINUATION PAGE(S) *1084838*

*13805 11*

SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE *8226167*

**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>Cal Wylie</i>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <b>X</b>	HALLIBURTON OPERATOR/ENGINEER <i>Thomas J. Mullins E0382</i>	EMP #	HALLIBURTON APPROVAL <i>Orville Hendon</i>
		<i>Ron Crist</i>		





# JOB SUMMARY

HALLIBURTON DIVISION

Midcontinent

HALLIBURTON LOCATION

Liberal Ks.

BILLED ON TICKET NO.

125412

## WELL DATA

FIELD EAST Kinsler SEC. 17 TWP. 32S RING. 39W COUNTY Morton 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	N	24	8 5/8	KB	1726.4	
LINER						
TUBING						
OPEN HOLE			12 1/4		1725	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2/5/97</u>	DATE <u>2/5/97</u>	DATE <u>2/5/97</u>	DATE <u>2-5-97</u>
TIME <u>0900</u>	TIME <u>1300</u>	TIME <u>1659</u>	TIME <u>1835</u>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T. Mullins</u>	<u>52276</u>	<u>Liberal</u>
<u>E0382</u>	<u>7131</u>	<u>Liberal</u>
<u>R. CRIST</u>	<u>470045</u>	<u>Liberal</u>
<u>D 7563</u>		
<u>D. Corpaning</u>	<u>4037-</u>	<u>Hugoton</u>
<u>H2441</u>	<u>6612</u>	
<u>C. Ford</u>	<u>50502</u>	<u>Hugoton</u>
<u>H 9437</u>	<u>75505</u>	

## TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
<u>Float collar insert Fillassy</u>	<u>1</u>	<u>H</u>
<u>Float shoe 8 5/8 Fas Grip</u>	<u>1</u>	<u>O</u>
<u>GUIDE SHOE 8 5/8 Reg.</u>	<u>1</u>	<u>W</u>
<u>CENTRALIZERS 8 5/8</u>	<u>4</u>	<u>C</u>
<u>BOTTOM PLUG</u>		<u>H</u> <u>O</u>
<u>TOP PLUG Swiper 8 5/8</u>	<u>1</u>	<u>O</u> <u>W</u>
<u>HEAD DC. P.C.</u>	<u>1</u>	<u>W</u>
<u>PACKER 8 5/8 Cement Basket</u>	<u>1</u>	<u>C</u>
<u>OTHER House Wild-R</u>	<u>1</u>	<u>O</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 Cement  
 DESCRIPTION OF JOB 8 5/8 SURFACE  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.

CUSTOMER REPRESENTATIVE XHALLIBURTON OPERATOR Thomas J. Mullins COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>410</u>	<u>Midcon Perm Plus</u>		<u>B</u>	<u>3% CaCl2, 1/2 1/8" Flocc</u>	<u>3.22</u>	<u>16.1</u>
	<u>100</u>	<u>Perm Plus</u>		<u>B</u>	<u>2% CaCl2, 1/4 1/8" Flocc</u>	<u>1.32</u>	<u>14.8</u>

## PRESSURES IN PSI

## SUMMARY

## VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. BBL.-GAL. 107.19  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY BBL.-GAL. 4-235.13  
 HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME BBL.-GAL. 258.62 bbls  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET 40.68' REASON Shot Joint

Circulated 40 BBLs 69 SKS TO PIT

CUSTOMER OXY USA Inc. LEASE UNITARY A WELL NO. 3 JOB TYPE 8 5/8 SURFACE DATE 2/5/97

**JOB LOG** HAL-2013-C

CUSTOMER	WELL NO.	LEASE	JOB TYPE
Oxy	3	Lactaret A	010

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							called out
	1245							on loc Drilling
	1419							Pull Drill Pipe
	1548							START CSG 8 5/8 24" Pipe Run
	1658							Hook To Circulate
	1725							Hook To CMT
	1728							0-80 Start Lead CMT @ 11.1 #/gal
	1802	6.5	235					80 lead CMT Pumped Start Tail CMT
	1808	6	27.5					2 Tail CMT Pumped Shut Down
								Drop Plug
	1810							START DISP
	1830	8.5	98					370 slow rate
	1834	3	10					370-900 Bump Plug

ORIGINAL

Thank you for calling  
Halliburton Energy  
R Crist & Crew

RECEIVED  
KALISA'S CORP  
1997 JUL 23 12:54