

00-00 ORIGINAL

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: NN

Operator Contact Persons: Raymond Hui

Phone (918) 561-3548

Contractor: Name: Cheyenne Drilling Co

License: 5382

Wellsite Geologist: None

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGM  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

RELEASED

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

Well Name: SEP 25 1998

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

FROM CONFIDENTIAL

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

12-16-96 12-20-96 02-12-97  
Spud Date Date Reached TD Completion Date

API NO. 15-129-21463

County Morton

- SW-NE - NE Sec. 24 Twp. 34S Rge. 41 E  
X W

4030 FSL Feet from SW (circle one) Line of Section

1250 FEL Feet from EW (circle one) Line of Section

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

Lease Name Becker E Well # 2

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3406 KB \_\_\_\_\_

Total Depth 2630 PBTD 2585

Amount of Surface Pipe Set and Cemented at 492' 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 cmt.

Drilling Fluid Management Plan AH-1, 9-21-98 U.C.  
(Data must be collected from the Reserve Pit)

Chloride content 3200 ppm Fluid volume 486 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled off site: \_\_\_\_\_

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

Lease Name \_\_\_\_\_

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 2-16-97

Subscribed and sworn to before me this 16th day of February, 1998

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

SIDE TWO

CONFIDENTIAL

Operator Name MOXY-USA Inc.

Lease Name Becler E

Well # 2

Sec. 24 Twp. 34S Rge. 41

East  
 West

County Morton

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 Dual Spaced Neutron

Log Formation (Top), Depth and Datums  Sample

Name	Top	Datum
Hollenberg	2391	1026
Herington	2406	1011
Krider	2426	991
Winfield	2460	957
Towanda	2528	889

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	492	CL A	250 sx	3% cc
Production	7 7/8"	5 1/2"	14	2623	2 S CL A	435 SX	2% cc

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: ___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
2	2396-2484'	Acidized w/1800 gal 7 1/2% HCL
		Frac'd w/39991 gal

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	2491		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. Pump Testing		2-13-97		Producing Method <input 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
		571	47		

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: \_\_\_\_\_

CUSTOMER COPY



HALLIBURTON ORIGINAL

REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046

INVOICE

CONFIDENTIAL

INVOICE NO.	DATE
107072	12/20/1996

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
BECKER E 2		MORTON		KS	SAME
SERVICE/LOCATION		CONTRACTOR		JOB PURPOSE	
LIBERAL		CHEYENNE		CEMENT PRODUCTION CASING	
TICKET DATE					
		12/20/1996			
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
659167	JAKE SLATTEN	E-26		COMPANY TRUCK	18214

RELEASED

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

SEP 25 1998

DIRECT CORRESPONDENCE TO:

P O BOX 1598  
LIBERAL KS 67901

KCC

FROM CONFIDENTIAL

MAR 19

CONFIDENTIAL

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	112 MI		2.99	334.88
	DISCOUNT-(BID)	1 UNT			
		41.0 %			137.30
000-119	MILEAGE FOR CREW	112 MI		1.60	179.20
	DISCOUNT-(BID)	1 UNT			
		41.0 %			73.47
001-016	CEMENTING CASING	2628 FT		1,500.00	1,500.00
	DISCOUNT-(BID)	1 UNT			
		41.0 %			615.00
030-016	CEMENTING PLUG 5W ALUM TOP	5.5 IN		60.00	60.00
	DISCOUNT-(BID)	1 EA			
		41.0 %			24.60
12A 825.205	GUIDE SHOE - 5 1/2" 8RD THD.	1 EA		121.00	121.00
	DISCOUNT-(BID)	1 EA			
		32.0 %			38.72
24A 815.19251	INSERT FLOAT VALVE - 5 1/2" 8RD	1 EA		131.00	131.00
	DISCOUNT-(BID)	1 EA			
		32.0 %			41.92
27 815.19311	FILL-UP UNIT 5 1/2"-6 5/8"	1 EA		69.00	69.00
	DISCOUNT-(BID)	1 EA			
		32.0 %			22.08
320 806.71430	BASKET-CMT-4 1/2 OSG 18" OD	1 EA		104.00	104.00
	DISCOUNT-(BID)	1 EA			
		32.0 %			33.28

*John Slatten  
other services complete well*

RECEIVED 22.08  
KANSAS CORPORATION COMMISSION  
104.00  
MAR 24 1997  
CONSERVATION DIVISION  
WICHITA, KS

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

AFFIX JOB TKT  
FORM HAL-1900-F

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



HALLIBURTON ORIGINAL

REMIT TO: 3 P.O. BOX 951046 DALLAS TX 75395-1046

INVOICE

INVOICE NO.	DATE
107072	12/20/1996

WELL LEASE NO./PROJECT BECKER E 2		WELL/PROJECT LOCATION MORTON		STATE KS	OWNER SAME
SERVICE LOCATION LIBERAL		CONTRACTOR CHEYENNE	JOB PURPOSE CEMENT PRODUCTION CASING		TICKET DATE 12/20/1996
ACCT. NO. 659167	CUSTOMER/AGENT JAKE SLATTEN	VENDOR NO. E-26	CUSTOMER P.O. NUMBER	SHIPPED VIA COMPANY TRUCK	FILE NO. 18214

CONFIDENTIAL

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

DIRECT CORRESPONDENCE TO:  
P O BOX 1598  
LIBERAL KS 67901

MAR 19

CONFIDENTIAL

REFERENCE NO.	DESCRIPTION	QUANTITY	UOM	UNIT PRICE	AMOUNT
40 806.60022	CENTRALIZER-5-1/2 X 7-7/8 DISCOUNT--(BID)	10	EA	60.00	600.00
		32.0 %			<i>Att. 1, 9-21-98 etc.</i>
350 890.10802	HALLIBURTON WELD-A DISCOUNT--(BID)	1	EA	16.75	16.75
		32.0 %			5.36
218-517	SSC-21M DISCOUNT--(BID)	3	GAL	30.25	90.75
		41.0 %			37.20
018-315	MUD FLUSH DISCOUNT--(BID)	500	GAL	.65	325.00
		41.0 %			133.25
504-282	MIDCON-2 PREMIUM PLUS CEMENT DISCOUNT--(BID)	435	SK	16.76	7,290.60
		41.0 %			2,989.14
509-406	ANHYDROUS CALCIUM CHLORIDE DISCOUNT--(BID)	8	SK	40.75	326.00
		41.0 %			133.66
507-210	FLOCELE DISCOUNT--(BID)	181	LB	1.65	298.65
		41.0 %			122.44
508-291	GILSONITE BULK DISCOUNT--(BID)	1425	LB	.40	570.00
		41.0 %			233.70
018-303	CLAYFIX II, PER GAL DISCOUNT--(BID)	3	GAL	28.00	84.00
		41.0 %			34.44
313-396	BE-6 DISCOUNT--(BID)	1	LB	70.00	70.00
		41.0 %			28.70
500-207	BULK SERVICE CHARGE	514	CFT	1.35	693.90

RELEASED  
SEP 25 1998  
FROM CONFIDENTIAL

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

AFFIX JOB TRK

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.

FORM HAL-1900-F

PAGE 2

CUSTOMER COPY



HALLIBURTON ORIGINAL

REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046

INVOICE

INVOICE NO.	DATE
107072	12/20/1996

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
BECKER E 2		MORTON		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
LIBERAL	CHEYENNE	CEMENT PRODUCTION CASING		12/20/1996	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
659167	JAKE SLATTEN	E-26		COMPANY TRUCK	18214

CONFIDENTIAL

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

DIRECT CORRESPONDENCE TO:  
P O BOX 1598  
LIBERAL KS 67901

MAR 19

CONFIDENTIAL

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	DISCOUNT-(BID)	41.0	%		284.49-
500-306	MILEAGE CMTG MAY DEL OR RETURN	573.43	TMI		266.66
	DISCOUNT-(BID)	41.0	%		246.85-
INVOICE SUBTOTAL					13,466.83
DISCOUNT-(BID)					5,427.61-
INVOICE BID AMOUNT					8,039.22
*-KANSAS STATE SALES TAX					319.21
*-LIBERAL CITY SALES TAX					65.12
*-SEWARD COUNTY SALES TAX					97.71

RELEASED

SEP 25 1998

FROM CONFIDENTIAL

INVOICE TOTAL - PLEASE PAY THIS AMOUNT \$8,521.26

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.



**JOB LOG** HAL-2013-C

CUSTOMER OXF U.S.A	WELL NO. B-2	LEASE BECKER	JOB TYPE 5 1/2 LONGSTRING	TICKET NO. 107072
-----------------------	-----------------	-----------------	------------------------------	----------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	08:30							CALLED OUT READY 11:00
	11:25							ON LOC RIG L.P.R.C.
	14:00							START CS9
	15:20							CS9 ON BOTTOM ORIGINAL
	15:35							CIRG W/RIG
	15:53							HOOK TO HALLIBURTON
	15:55	8.3	10				100	START MID FLUSH
	15:57	6.1	154.8				100	START LEAD CNT @ 11.1 #/GAL
	16:22	5.4	49				285	START TAIL CNT @ 13.2 #/GAL
	16:31						385	SHUT DOWN
	16:32						0	DROP PLUG/WASH TO PIT
	16:38	3.8	61.5				300	START DISPLACEMENT
	16:54						550	PLUG DOWN
	16:55						1,000	RELEASE BACK FLOAT HOLDING
	17:00							PLUG RAT HOLE
	17:10							PLUG MOUSE HOLE
								MAR 19
	17:15							RELEASED
								Job Complete
								CONFIDENTIAL
								SEP 25 1998
								FROM CONFIDENTIAL
								RETURNS THRU CNT JOB
								NO RETURN DURING DISPLACEMENT
								THANK YOU FOR CALLING
								HALLIBURTON
								ROBERT & TOM & CREW

CUSTOMER COPY.

INVOICE



HALLIBURTON

REMIT TO:  
P.O. BOX 951046  
DALLAS, TX 75395-1046

ORIGINAL

INVOICE NO.	DATE
185104	12/16/1996

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
BECKER E 2		MORTON		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
LIBERAL			CEMENT SURFACE CASING		12/16/1996
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
659167	CAL WYLIE	E-26		COMPANY TRUCK	18070

CONFIDENTIAL

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

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

*RCU*  
**MAR 19**  
CONFIDENTIAL

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	112	MI	2.99	334.88 *
	DISCOUNT-(BID)	41.0	%		137.30-
000-119	MILEAGE FOR CREW	112	MI	1.60	179.20
	DISCOUNT-(BID)	41.0	%		73.47-
001-016	CEMENTING CASING	487	FT	650.00	650.00 *
	DISCOUNT-(BID)	41.0	%		266.50-
030-018	CEMENTING PLUG SW, PLASTIC TOP	8	5/8 IN	130.00	130.00 *
	DISCOUNT-(BID)	41.0	%		53.30-
597	BAFFLE PLATE - 8 5/8" ALUM	1	EA	50.00	50.00 *
825.1269	DISCOUNT-(BID)	32.0	%		16.00-
40	CENTRALIZER - 8-5/8 X 12-1/4	3	EA	61.00	183.00 *
806.61048	DISCOUNT-(BID)	32.0	%		58.56-
320	BASKET-CMT-8 5/8 CSB X 21"-SLP	1	EA	124.00	124.00 *
806.71460	DISCOUNT-(BID)	32.0	%		39.68-
350	HALLIBURTON WELD-A	1	EA	16.75	16.75 *
890.10802	DISCOUNT-(BID)	32.0	%		5.36-

RELEASED  
SEP 25 1998  
FROM CONFIDENTIAL

*Other service dt 2/16/98  
P.M.*

\*\*\*\*\* 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.

FORM HAL-1900-F



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INVOICE



# HALLIBURTON ORIGINAL

REMIT TO:  
P.O. BOX 951046 /  
DALLAS, TX 75395-1046

INVOICE NO.	DATE
185104	12/16/1996

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
BECKER-E 2		MORTON		KS	GAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
LIBERAL			CEMENT SURFACE CASING		12/16/1996
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
659167	CAL WYLIE	E-26		COMPANY TRUCK	18070

## CONFIDENTIAL

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

*hcu*  
**MAR 19**  
**CONFIDENTIAL**

DIRECT CORRESPONDENCE TO:  
P O BOX 1598  
LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
504-050	CEMENT - PREMIUM PLUS DISCOUNT-(BID)	100	SK	13.12	1,312.00 *
		41.0 %			537.92-
504-282	MIDCON-2 PREMIUM PLUS CEMENT DISCOUNT-(BID)	120	SK	16.76	2,011.20 *
		41.0 %			824.59-
507-210	FLOCELE DISCOUNT-(BID)	85	LB	1.65	140.25 *
		41.0 %			57.50-
509-406	ANHYDROUS CALCIUM CHLORIDE DISCOUNT-(BID)	5	SK	40.75	203.75 *
		41.0 %			83.53-
500-207	BULK SERVICE CHARGE DISCOUNT-(BID)	242	CFT	1.35	326.70 *
		41.0 %			133.94-
500-306	MILEAGE CMTG MAT DEL OR RETURN DISCOUNT-(BID)	270.46	TMI	1.05	283.98 *
		41.0 %			116.43-

**RELEASED**

**SEP 25 1998**

INVOICE SUBTOTAL

5,945.71

DISCOUNT-(BID)

2,404.08-

INVOICE BID AMOUNT

3,541.63

**FROM CONFIDENTIAL**

\*--KANSAS STATE SALES TAX

169.36

\*--LIBERAL CITY SALES TAX

34.37

\*--SEWARD COUNTY SALES TAX

51.52

*Other service drill well  
P.M. inc*

INVOICE TOTAL - PLEASE PAY THIS AMOUNT

**\$3,795.88**

AFFIX JOB TKT

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

CUSTOMER COPY

TICKET  
185104 - 7

CHARGE TO: Oxy USA  
ADDRESS: \_\_\_\_\_  
CITY, STATE, ZIP CODE: \_\_\_\_\_

RELEASED  
SEP 25 1998

FROM CONFIDENTIAL

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>25410 Liban Ks</u>	WELL/PROJECT NO. <u>2<sup>nd</sup></u>	LEASE <u>Becker E</u>	COUNTY/PARISH <u>Morton</u>	STATE <u>Ks</u>	CITY/OFFSHORE LOCATION	DATE <u>12-16-96</u>	OWNER <u>Oxy USA</u>
2. <u>2535 Highton Ks</u>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>Croyenne Del</u>	RIC NAME/NO.	DELIVERED TO <u>LOC</u>	ORDER NO.	
3.	WELL TYPE	WELL CATEGORY <u>01 02</u>	JOB PURPOSE <u>010 8 3/8 SURFACE</u>	WELL PERMIT NO.	WELL LOCATION <u>SW OF Rolla Ks</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
000-117	CONFIDENTIAL	1			MILEAGE	112	miles			2.99	334.88	
000-119		1			Crew Mileage	112	miles			1.60	179.20	
001-016		1	ORIGINAL			Pump Charge	487	FT				650.00
030-018		1				5 lb Top Plug	1	Each	8 3/8		130.00	130.00
597	825-1269	1	ORIGINAL		Baffle Plate	1	Each	8 3/8		50.00	50.00	
40	806-61048	1			Centralizers	3				61.00	183.00	
320	806-71460	1			Basket	1				124.00	124.00	
350	890-10802	1			Howco weld. A	1				16.75	16.75	

MAR 19 1998  
CONFIDENTIAL

**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 [Signature]

DATE SIGNED: \_\_\_\_\_ TIME SIGNED: \_\_\_\_\_

A.M.  P.M.

do  do not require IPC (Instrument Protection).  Not offered

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <b>1667 83</b>
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					FROM CONTINUATION PAGE(S) <b>4277 88</b>
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE
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) <u>CAL UYLIE</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X <u>[Signature]</u>	HALLIBURTON OPERATOR/ENGINEER <u>L10102 DENNIS [Signature]</u>	EMP # <u>59179</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. 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 Dry USA WELL NO. 2 LEASE Beckeie E JOB TYPE 8 3/8 SURFACE TICKET NO. 185104

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 like 'Time Colled', 'Time Ready', 'Time on Job', 'Start Pumping Casing', 'Casing in Hole', 'Hook up to Circulate', 'Circulate Casing w/ Reg Pmp', 'Circulate Mud to Ground Level', 'Hook up to Pmp Truck', 'Start Mixing Cement', 'Start Tack Cement', 'Finish Mixing Cement', 'Shut Down', 'Start Displacement', 'Plug Dam', 'Shut in Head & Manifold', 'Circulate Cement to PT 8 1/2 BBL ✓'. Includes 'CONFIDENTIAL' and 'RELEASED SEP 25 1998 FROM CONFIDENTIAL' stamps.



# JOB SUMMARY

HALLIBURTON DIVISION

HALLIBURTON LOCATION

HES  
Liberal OK

BILLED ON TICKET NO. 107189

## WELL DATA

FIELD \_\_\_\_\_ SEC 11 TWP. 34S RNG. 41W COUNTY. MORTON STATE KC

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 PBTD TOTAL DEPTH 2300

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>0</u>	<u>15.5</u>	<u>5 1/2</u>	<u>KB</u>	<u>2654</u>	
LINER						
TUBING	<u>D.P.</u>	<u>16.6</u>	<u>4 1/2</u>	<u>KB</u>	<u>2800</u>	
OPEN HOLE						SHOTS/FT:
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**ORIGINAL**

## JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>12-22-96</u>	DATE <u>12-22-96</u>	DATE <u>12-22-96</u>	DATE <u>12-22-96</u>
TIME <u>0500</u>	TIME <u>0800</u>	TIME <u>1100</u>	TIME <u>1710</u>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T. Poyer</u>	<u>420042</u>	<u>LIBERAL</u>
<u>S. Tate</u>	<u>52823</u>	<u>"</u>
<u>E0568</u>	<u>75371</u>	
<u>B. McINTYRE</u>	<u>50866</u>	<u>HUGOTON</u>
<u>H2308</u>	<u>7649</u>	
<u>D. CORDEIRO</u>	<u>4037</u>	<u>"</u>
<u>H2441</u>	<u>6612</u>	
<u>NO</u>		

MAR 19

**CONFIDENTIAL**

DEPARTMENT 5001  
 DESCRIPTION OF JOB 675 P.B. Long string

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

CUSTOMER REPRESENTATIVE

J. J. Stettin

HALLIBURTON OPERATOR

T. Poyer

COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>50</u>	<u>H</u>		<u>B</u>	<u>NEAT</u>	<u>1.07</u>	<u>16.4"</u>
<u>2</u>	<u>195</u> <u>200</u>	<u>P+ MIDCON</u>		<u>B</u>	<u>2% CC, 1/4" FLO,</u>	<u>3.22</u>	<u>11.1"</u>
<u>3</u>	<u>150</u>	<u>"</u>		<u>"</u>	<u>"</u>	<u>1.84</u>	<u>12.2"</u>
<u>RAV</u>	<u>25</u>	<u>"</u>		<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

## PRESSURES IN PSI

## SUMMARY

## VOLUMES

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 23 REASON SHUT IN

PRESLUSH: BBL.-GAL. 10 BBL TYPE \_\_\_\_\_  
 LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 TREATMENT: BBL.-GAL. 1 DISPL. BBL.-GAL. 6216  
 CEMENT SLURRY: BBL.-GAL. 193 BBL  
 TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

## REMARKS

SEE Job Log

CUSTOMER

CUSTOMER \_\_\_\_\_ LEASE Engley "A" WELL NO. \_\_\_\_\_ JOB TYPE 1075 DATE 12-22-96



JOB LOG HAL-2013-C

CUSTOMER <i>Oxy USA</i>	WELL NO. <i># 2</i>	LEASE <i>EMERY A</i>	JOB TYPE <i>675</i>	TICKET NO. <i>109189</i>
----------------------------	------------------------	-------------------------	------------------------	-----------------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0750							Called out - Requested 0800 est
	0800							on Loc. - Circ. on Bottom & Rig
	0830							Safety meeting - Rig up + TR's
	0950							T.I.H.
								Hook-up to cement ORIGINAL
	1107	0-4	10	✓		0/200		Pump H <sub>2</sub> O amt.
	1110	4	9 1/2	✓		200		Pump cement @ 50 sks
	1112	4	3 1/2	✓		150		Pump H <sub>2</sub> O
	1113	4	30 1/2	✓		150		Pump mud
	1120	4-0		✓		80%		Shut down - T.O.H @ 5 1/2 @ Drill pipe
	1138			✓				Circ @ Kelly
								L.D.D.P.
	1340							RUN Csg @ 5 1/2 <sup>155</sup>
	1535							ON Bottom @ 12' connection
	1552							Hook-up to circ.
	1605		4	✓		0/5000		Hook-up to amt. Rat hole
	1620		3	✓		0/50		Hook-up to amt mouse hole
								✓ 0/ Hook-up to amt. csg.
	1623	0-2	12	✓		0/150		Pump Mud flush
	1629	2-1 1/2	100	✓		150		Pump lead amt. @ 175 sks
	1643	1 1/2-6	49	✓		200		Pump tail amt. @ 150 sks
	1651	2-0				200%		Shut down - Drop plug - wash-up trk
	1654	0-6	62	✓		0/400		Pump Displ. @ treated H <sub>2</sub> O
	1703	6-2		✓		400/300		Reduce RATE @ 54 bbls in
	1705	2-0		✓		400/1000		Plug Down
	1708			✓		100%		RELEASE PRESS. - float "held"
								RELEASED
								SEP 25 1998
								FROM CONFIDENTIAL
								Good mud RETURNS
								Thank you!
								Tom + Sonny + CREW




**JOB LOG** HAL-2013-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
OXO U.S.A		B-2		BECKER		5 1/2 LONGSTRENGTH		107072	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	08:30								CALLER OUT READY 11:00
	11:25								ON LOC Rig L.D.P.C.
	14:00								START CSG
	15:20								CSG ON BOTTOM ORIGINAL
	15:35								CSG CIRC W/RIG
	15:53								HOOK TO HALLIBURTON
	15:55	3.3	10			100			START RUD FLUSH
	15:57	6.1	154.8			100			START LEAD CMT @ 11.1 #/gal
	16:22	5.4	49			285			START TAIL CMT @ 13.0 #/gal
	16:31					385			SHUT DOWN
	16:32					0			DROP PLUG/WASH TO PIT
	16:38	3.8	61.5			300			START DISPLACEMENT
	16:54					550			PLUG DOWN
	16:55					1,000			RELEASE BACK FLAT HOLDING
	17:00								PLUG RAT. HOLE
	17:10								PLUG MOUSE HOLE
									RELEASED
									MAR 19
	17:15								Job Complete
									CONFIDENTIAL
									FROM CONFIDENTIAL
									RETURNS thru CMT Job
									NO RETURN DURING Displacement
									THANK YOU FOR CALLING
									HALLIBURTON
									ROBERT & TOM & CLEN



# JOB SUMMARY

HALLIBURTON DIVISION Mid Continent  
 HALLIBURTON LOCATION Liberal KS

BILLED ON TICKET NO. 102072

## WELL DATA

FIELD \_\_\_\_\_ SEC. 24 TWP. 39S RNG. 41W 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	<u>.N</u>	<u>15.5</u>	<u>5 1/2</u>	<u>KB</u>	<u>31.23</u>	
LINER						
TUBING						
OPEN HOLE		<u>7 7/8</u>	<u>7 7/8</u>	<u>KB</u>	<u>31.20</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**CONFIDENTIAL**

**ORIGINAL**

## JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>12/20/96</u>	DATE <u>12/20/96</u>	DATE <u>12/20/96</u>	DATE <u>12 20 96</u>
TIME <u>0900</u>	TIME <u>1125</u>	TIME <u>15:53</u>	TIME <u>17:15</u>

## TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT-SHOE <u>INSIDE FLOAT 5 1/2</u>	<u>1</u>	
GUIDE SHOE <u>5 1/2</u>	<u>1</u>	
CENTRALIZERS <u>5 1/2</u>	<u>10</u>	
BOTTOM PLUG		
TOP PLUG <u>5 1/2</u>	<u>1</u>	
HEAD <u>P.C.</u>	<u>1</u>	
PACKER		
OTHER <u>Cement Basket 5 1/2</u>	<u>1</u>	

**HOWCO**

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T. Mullins</u>		
<u>R. Edwards</u>		
<u>S. Telford</u>		
<u>L. Patterson</u>		

**REC**  
**MAR 19**  
**CONFIDENTIAL**

## 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. \_\_\_\_\_  
 NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_  
 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 \_\_\_\_\_

**RELEASED**

**SEP 25 1998**

**FROM CONFIDENTIAL**

DEPARTMENT 5001 Cement  
 DESCRIPTION OF JOB 5 1/2 long string

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

CUSTOMER REPRESENTATIVE X Tr. to Slot

HALLIBURTON OPERATOR Robert Edwards COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>225</u>	<u>Mason Port</u>		<u>B</u>	<u>2% CaCl2, 1/2 HR blocks, 5/32 Gypsum</u>	<u>3.22</u>	<u>11.1</u>
	<u>150</u>	<u>Mason Port</u>		<u>B</u>	<u>2% CaCl2, 1/2 HR blocks</u>	<u>1.84</u>	<u>12.2</u>

## PRESSURES IN PSI

## SUMMARY

## VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESURUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. BBL.-GAL. 61.54  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY BBL.-GAL. 4-159, 184  
 HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. 4-159, 184  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS  
 AVERAGE RATES IN BPM \_\_\_\_\_ 15 SKS used to Plug RPT  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_ And mouse holes.  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET 37.22 REASON SHoe Joint

CUSTOMER

CUSTOMER DDY USA INC  
 LEASE Beller E  
 WELL NO. 3  
 JOB TYPE 5 1/2 long string  
 DATE 12/20/96