

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM

Form ACO-1

September 1999

Form Must Be Typed

CONFIDENTIAL

WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 5447
 Name: OXY USA, Inc.
 Address: P.O. Box 2528
 City/State/Zip: Liberal, KS 67905
 Purchaser: Pending
 Operator Contact Person: Jerry Hunt
 Phone: (316) 629-4200 **KCC**
 Contractor: Name: CHEYENNE DRILLING INC
 License: 5382
 Wellsite Geologist: TIM HERDICK
 Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl, Cathodic, etc)
 If Workover/Re-entry: Old Well-Info as follows: **STATE CORPORATION COMMISSION**
 Operator: _____
 Well Name: FEB - 5 2001
 Original Comp. Date: _____ Original Total Depth: **CONSERVATION DIVISION**
 Deepening Re-perf. Conv. To Enhr./SWD
 Plug Back Plug Back Total Depth _____
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____
 01-03-01 01-13-01 _____
 Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No. 15 - 129-216260000
 County: MORTON
- S/2 - NW - SE Sec 15 Twp. 34 S. R. 41W
1830 feet from (S) N (circle one) Line of Section
2013 feet from (E) W (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE (SE) NW SW
 Lease Name: MINGENBACK C Well #: 1
 Field Name: _____
 Producing Formation: ST. LOUIS
 Elevation: Ground: 3440 Kelly Bushing: 3453
 Total Depth: 6000 Plug Back Total Depth: _____
 Amount of Surface Pipe Set and Cemented at 1649 feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set _____
 Alternate II completion, cement circulated from _____
 feet depth to _____ w/ _____ sx cmt.
 Drilling Fluid Management Plan **ACT 1 P/A**
DPW 3-18-02
 Chloride content 900 ppm Fluid volume 1600 bbls
 Dewatering method used EVAPORATION
 Location of fluid disposal if hauled offsite: _____
 Operator Name: **RELEASED**
 Lease Name: _____ License No.: _____
 Quarter SEAR 18 2002 S. R. East West
 County: _____ Docket No.: _____

FEB 02 2001
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RECEIVED

FROM CONFIDENTIAL

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 6702, 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 of 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: [Signature]
 Title: Capital Project Date: 02-02-01
 Subscribed and sworn o before me this 2nd day of February
 20 01
 Notary Public: Anita Peterson
 Date Commission Expires: Oct. 1, 2001

KCC Office Use Only

Letter of Confidentiality Attached
 If Denied, Yes Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution **KCC**

NOTARY PUBLIC, State of Kansas
 ANITA PETERSON
 My Appt. Exp. Oct. 1, 2001

X

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Side Two

Operator Name: OXY USA, Inc. Lease Name: MINGENBACK, G. Well #

Sec. 15 Twp. 34 S. R. 41W East West County: MORTON

Instructions: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<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	TOPEKA	3220	+233
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	HEEBNER	3636	-183
List All E. Logs Run:	GEO. REPORT MICROLOG	LANSING	3712	-259
	INDUCTION LOG NEUTRON LOG SONIC LOG	MARMATON	4362	-909
		CHEROKEE	4648	-1195
		MORROW	5069	-1616
		PLEASE SEE THIRD PAGE		

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
Conductor					C		
Surface	12 1/4	8 5/8	24	1649	C	650	2% CC 1/4# FLOCELE
Production					C		

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
	PER KCC: 100 SXS @ 3150', 50 SXS @ 1670', 30 SXS		
	@ 660', 10 SXS @ 40', CEMENTED RAT AND MOUSE		
	HOLE WITH 25 SXS. CEMENT TYPE 60/40 POZ 6%		
	GEL. JOB COMPLETED 9: 00 P.M. 01-14 - 01		

TUBING RECORD	Size	Set At	Packer At	Liner Run
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Enhr.	Producing Method
	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain)

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

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled

Production Interval: Other (Specify) P AND A 01-14 - 01

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ORIGINAL

MINGENBACK C # 1 THIRD PAGE

LOG	FORMATION (TOP) DPTH AND DATUM
CHESTER	5566 -2113
STE. GENEVIEVE	5730 -2277
ST. LOUIS	5797 -2344

KCC

FEB 0 2 2001

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RELEASED

MAR 18 2002

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION

FEB - 5 2001

CONSERVATION DIVISION
Wichita, Kansas



JOB SUMMARY

ORDER NO. 70006

TICKET #	TICKET DATE
1066934	1-5-1
BDA / STATE	COUNTY
Ks	Morton
PSL DEPARTMENT	ORIGINAL
27	
CUSTOMER REP / PHONE	
Mr. Col WYLLIE 316-629-0433	
API / UWI #	
15-125-21626	
JOB PURPOSE CODE	
010	

REGION	NWA/COUNTRY
North America	MEX CONT U.S.A
MBU ID / EMP #	EMPLOYEE NAME
106270	ROBERT ELWOOD
LOCATION	COMPANY
Liberal Ks.	OXY U.S.A.
TICKET AMOUNT	WELL TYPE
10,582.96	01
WELL LOCATION	DEPARTMENT
WELBURTON Ks	27
LEASE / WELL #	SEC / TWP / RNG
15 34 S. 41 W.	KCC

HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS
R. ELWOOD 106270			FEB 02 2001
J. FIELDS 212723			CONFIDENTIAL
J. FULLER 202238			CONFIDENTIAL
J. PASTER 106056			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
491269 P.U.	104						
54218-78202	104						
58920-75738	27						

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

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
1-5-1	16:30	1-4-1	20:00	4:45
				6:00

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar 4-1/2" ID	1	Flowco
Float Shoe		
Guide Shoe Psg		
Centralizers 1-1/2"	4	
Bottom Plug 1-1/2" ID	1	
Top Plug 1-1/2" ID	1	
Head 1-1/2" ID	1	
Packer 1-1/2" ID	1	
Other 1-1/2" ID		

WELL DATA

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing N	21	8 5/8	1650		
Liner					
Liner					
Tbg/D.P.					
Tbg/D.P.					
Open Hole			STATE CORPORATION COMMISSION 12/4/1	G.L.	1654 SHOTS/FT.
Perforations					
Perforations			FEB - 5 2001		
Perforations					

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	Qty.
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION

DATE	HOURS	OPERATING HOURS	DESCRIPTION OF JOB
			75% Success
			RELEASED
			MAR 18 2002
			FROM CONFIDENTIAL
TOTAL			

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	500	PP H2C	2	2% CC, 1% Fluoride	2.12	12.2
	150	PP H2C	3	2% CC, 1% Fluoride	1.34	14.8

Circulating _____	Displacement _____	Preflush: _____	Gal - BBI _____	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: _____	Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment _____	Gal - BBI _____	Disp: BBI - Gal _____
Shut In: Instant _____	5 Min _____	Cement Slurr _____	Gal - BBI _____	
	15 Min _____	Total Volume _____	Gal - BBI _____	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE _____



JOB LOG

ORDER NO. 70008

TICKET #	1061934	TICKET DATE	12-15-1
BDA / STATE	Ks	COUNTY	Madison
PSL DEPARTMENT	ZE	CUSTOMER REP / PHONE	Cal Wilkes 316-228-1133
API / UWI #	15-129-31626	JOB PURPOSE CODE	010

REGION	North America	NWA/COUNTRY	MEXICO OUSA
MBU ID / EMP #	MCLF0105 106270	EMPLOYEE NAME	ROBERT ELWOOD
LOCATION	Liberal Ks	COMPANY	OXY U.S.A.
TICKET AMOUNT	10,582.96	WELL TYPE	01
WELL LOCATION	WILKINSON K5	DEPARTMENT	ZE
LEASE / WELL #	MINGEN BACK C#1	SEC / TWP / RNG	K5 34 S. 41 W

ORIGINAL

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
R. Elwood 106270			
J. Evans 219727			
T. Fuller 267254			
D. REYNOLDS 106056			

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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1630							CALLED OUT
	1900							DEPART
	2000							ON LOCATIONS Rig Drilling
	2330							T.D. 8 1/2"
	0000							T.O.O.H.
	0245							Safety Meeting
	0355							START CSP
	0435							CSP on Bottom
	0430							Circulate w/ Rig
	0445							Hook to flow assurance
	0450					950		Pressure Test
	0600	6.9	19.7			340		START LEAD CONT @ 12.2 #/gal
	0500	1.0	3.6			200		START TAIL CONT @ 10.2 #/gal
527	0500					1/16		SHOT DOWN
	0530					1/16		PROP & WIPED TIP PLUG
	0530	5	10.2			0		DISPLACE WASH PUMPS & LEASE
	0535					450		PIPE DOWN
	0540					950		W-LINE BACK FLOAT HOLDING
	0600					0		Job Complete

KCC
FEB 02 2001
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RELEASED

MAR 18 2002

FROM CONFIDENTIAL
40 RBLS CONT to RT

Tolson, Mr. Eric Callan
Halliburton
Robert Elwood

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ORIGINAL



Work Order Contract

KCC

Halliburton Energy Services, Inc. Houston Texas 77056

FEB 02 2007 Order Number

1066934

70012 SAP

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TO: HALLIBURTON ENERGY SERVICES, INC. - YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICE PERSONNEL TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO CUSTOMER LISTED BELOW AND DELIVER AND SELL PRODUCTS, SUPPLIES AND MATERIALS FOR THE PURPOSE OF SERVICING:

Well No.	Farm or Lease	County	State	Well Permit #
Customer	Well Owner	Job Purpose		
CH	MENGEID BACH	Houston	TX	15-129-21626
Oxy	Sane			010

THIS WORK ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

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 Energy Services, Inc. (hereinafter "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, or Halliburton's actual attorneys fees, whichever is greater, plus all collection and court costs. Customer agrees that the amount of attorney fees set out herein are reasonable and necessary.

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 or which are co-interest owners or joint ventures with Customer. 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 contamination 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 any member or members of the 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 Energy Services, Inc., its parent, subsidiary, and affiliated companies, insurers and subcontractors and all its/their officers, directors, employees, consultants 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. Customer agrees to support such obligations assumed herein with liability insurance with limits of not less than \$500,000. Customer agrees to name Halliburton Group as named additional insureds on all of its general liability policy(s). Customer agrees that its liability under this Contract is not limited by the amounts of its insurance coverage, except where and as may be required by applicable local law for the provisions of this Contract to be enforceable.

D. EQUIPMENT LIABILITY - Customer shall at its risk and expense attempt to recover any Halliburton Group 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 Group. Customer shall be responsible for damage to or loss of Halliburton group 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 group 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 Contract and that same are free from defects in workmanship and materials for thirty (30) days from the 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 GROUP. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton Group 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 or caused by the active or passive negligence, fault or strict liability of any member or members of Halliburton Group. 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 Contract shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. DISPUTE RESOLUTION - Customer and Halliburton agree that any dispute that may arise out of the performance of this Contract shall be resolved by binding arbitration by a panel of three arbitrators under the rules of the American Arbitration Association. The arbitration will take place in Houston, TX.

H. SEVERABILITY - If any provision or part thereof of this Contract shall be held to be invalid, void, or of no effect for any reason, such holding shall not be deemed to affect the validity of the remaining provisions of this Contract which can be given effect, without the invalid provision or part thereof, and to this end, the provisions of this Contract are declared to be severable. Customer and Halliburton agree that any provision of this Contract that is unenforceable or void under applicable law will be modified to achieve the intent of the parties hereunder to the greatest extent allowed by applicable law.

I. MODIFICATIONS - Customer agrees that Halliburton shall not be bound by any modifications to this Contract, 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, 4100 Clinton Drive, Houston, TX, 77020.

I HAVE READ AND UNDERSTAND THIS WORK ORDER CONTRACT WHICH CONTAINS RELEASE AND INDEMNITY LANGUAGE WHICH CUSTOMER ACKNOWLEDGES IS CONSPICUOUS AND AFFORDS FAIR AND ADEQUATE NOTICE AND I REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED: _____ DATE: 1-4-07 TIME: 2:00 A.M./P.M.

CUSTOMER Authorized Signatory

RELEASED

Customer Acceptance of Materials and Services

THE CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ON THE ATTACHED ORDER NUMBER _____

MAR 18 2002

CUSTOMER Authorized Signatory

FROM CONFIDENTIAL Green-Retain

White-Office

Canary-Field Office

Pink-Customer



JOB SUMMARY 70006

TICKET # 1084821
 TICKET DATE JAN 18 2001
 BDA / STATE KS
 COUNTY MORTON
 PSL DEPARTMENT CEMENTING
 CUSTOMER REP / PHONE CAL WYLIE 627-0433
 API / UWI #
 DEPARTMENT 10003
 JOB PURPOSE CODE 115
 HES FACILITY (CLOSEST TO WELL SITE) LIBERAL

REGION North America
 NWA / COUNTRY MIDCON
 MBU ID / EMP mcl 0102 188624
 EMPLOYEE NAME JOE JACKSON
 LOCATION LIBERAL
 COMPANY OXY USA
 TICKET AMOUNT 5487.84
 WELL TYPE OIL
 WELL LOCATION WILBURTON
 DEPARTMENT 10003
 LEASE / WELL # MINERAL BACG 0-#1
 SEC / TWP / RNG 15-34S-41W

HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS
J. JACKSON 188624	8						
J. CLEMENS 190516	5						
C. BEAVER 208989	0						

FEB 02 2001

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
14 422207	109						
5218-18202	104						
52920-11031	27						

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

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
JAN. 14	1300	JAN. 14	JAN. 14	JAN. 14
TIME			1832	2130

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoes		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing						
Liner						
Liner						
Tbg/D.P.	4	16.6	4 1/2	0	3150	
Tbg/D.P.						SHOTS/FT.
Open Hole			7 7/8			
Perforations						
Perforations						
Perforations						

SEE JOB LOG FOR PTA DATA -

MATERIALS

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

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE RECEIVED	HOURS	
JAN 14	6	FEB 5 2001	3	
TOTAL	6	TOTAL	3	

STATE CORPORATION COMMISSION
 CONSERVATION DIVISION
 Wichita, Kansas

ORDERED	HYDRAULIC HORSEPOWER Avail	Used
TREATED	AVERAGE RATES IN BPM Disp.	Overall
FEET	CEMENT LEFT IN PIPE Reason	

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	100	40/100 B2H	B	6% TOTAL GEL		
2	50	"	"	"		
3	30	"	"	"		
4		"	"	"		

RELEASED MAR 18 2002

Circulating _____ Displacement _____ Preflush: Gal-BBL _____ Type _____
 Breakdown _____ Maximum _____ Load & Bkdn: Gal-BBI _____ Pad: BBI-Gal _____
 Average _____ Frac Gradient _____ Treatment Gal-BBI _____ Disp: BBI-Gal _____
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal-BBI _____
 Total Volume Gal-BBI _____

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



LOG ORDER NO. 70008

REGION North America	WELL / COUNTY MDCN	TICKET # 112192	TICKET DATE FEB 02 2001
MBU ID / EMP # 194624	EMPLOYEE NAME DE JACKSON	BDN / STATE KS	COUNTY MERCER
LOCATION LIBERAL	COMPANY OXYGENA	PSL DEPARTMENT CEMENT ORIGINAL	CUSTOMER REP / PHONE AL WYLLIE 621-0115
TICKET AMOUNT 5487.84	WELL TYPE OIL	API / UWI #	
WELL LOCATION WILBERT	DEPARTMENT 10003	JOB PURPOSE CODE US	
LEASE / WELL # MERCER 0-#1	SEC / TWP / RNG 15-34-41W	HES FACILITY (CLOSEST TO WELL SITE) LIBERAL	

HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS
DE JACKSON	2						
	2						
	2						

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CHART NO.	TIME	RATE (GPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS (psi)		JOB DESCRIPTION/REMARKS
				T	C	Tbg	Csg	
	1700							ARRIVE LOCATION - RIG R.I.H. D.P. HOLD PRE-JOB SITE SAFETY MEETING
	1832	570	10					PLUG #1 - @ 3150' T.O.C. 2617'
		44	29					WATER SLURRY
	848		3.5			270		WATER BEHIND MUD - DISPLACEMENT
			33					
	930	3.5	10			210		PLUG #2 - @ 1675' T.O.C. 1403'
			14.6					WATER SLURRY
	943		3.5					WATER BEHIND MUD - DISPLACEMENT
			16.5					
			10			100+		PLUG #3 - @ 660' T.O.C. 455'
			9					WATER SLURRY
			3.5					WATER
	2020		1.45					MUD - DISPLACEMENT
			3					PLUG #4 - @ 40' T.O.C. SURFACE
								SLURRY
								PLUG BACK -
								RAT HOLE
	2130							MOUSE HOLE
								ALL WORK AS PLANNED

RELEASED

MAR 18 2002

FROM CONFIDENTIAL



HALLIBURTON

Work Order Contract

Halliburton Energy Services, Inc.
Houston Texas 77066

Order Number

1084821

ORIGINAL

70012 SAP

TO: HALLIBURTON ENERGY SERVICES, INC. YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICE PERSONNEL TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO CUSTOMER LISTED BELOW AND DELIVER AND SELL PRODUCTS, SUPPLIES AND MATERIALS FOR THE PURPOSE OF SERVICING: **KCC**

Well No. SI	Farm or Lease MULLENBACK	County MORTON	State KS	Well Permit #
Customer OXU USA	Well Owner SAME	Job Purpose PLS 0-2-2	CONFIDENTIAL	

THIS WORK ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

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 Energy Services, Inc. (hereinafter "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, or Halliburton's actual attorneys fees, whichever is greater, plus all collection and court costs. Customer agrees that the amount of attorney fees set out herein are reasonable and necessary.

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 or which are co-interest owners or joint ventures with Customer. 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 contamination 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 any member or members of the 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 Energy Services, Inc., its parent, subsidiary, and affiliated companies, insurers and subcontractors and all its/their officers, directors, employees, consultants 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. Customer agrees to support such obligations assumed herein with liability insurance with limits of not less than \$500,000. Customer agrees to name Halliburton Group as named additional insureds on all of its general liability policy(s). Customer agrees that its liability under this Contract is not limited by the amounts of its insurance coverage, except where and as may be required by applicable local law for the provisions of this Contract to be enforceable.

D. EQUIPMENT LIABILITY - Customer shall at its risk and expense attempt to recover any Halliburton Group 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 19.14(b) 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 Group. Customer shall be responsible for damage to or loss of Halliburton group 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 group 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 Contract and that same are free from defects in workmanship and materials for thirty (30) days from the 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 GROUP.** Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton Group 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 or caused by the active or passive negligence, fault or strict liability of any member or members of Halliburton Group. 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 Contract shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. DISPUTE RESOLUTION - Customer and Halliburton agree that any dispute that may arise out of the performance of this Contract shall be resolved by binding arbitration by a panel of three arbitrators under the rules of the American Arbitration Association. The arbitration will take place in Houston, TX.

H. SEVERABILITY - If any provision or part thereof of this Contract shall be held to be invalid, void, or of no effect for any reason, such holding shall not be deemed to affect the validity of the remaining provisions of this Contract which can be given effect, without the invalid provision or part thereof, and to this end, the provisions of this Contract are declared to be severable. Customer and Halliburton agree that any provision of this Contract that is unenforceable or void under applicable law will be modified to achieve the intent of the parties hereunder to the greatest extent allowed by applicable law.

I. MODIFICATIONS - Customer agrees that Halliburton shall not be bound by any modifications to this Contract, 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, 4100 Clinton Drive, Houston, TX. 77020.

I HAVE READ AND UNDERSTAND THIS WORK ORDER CONTRACT WHICH CONTAINS RELEASE AND INDEMNITY LANGUAGE WHICH CUSTOMER ACKNOWLEDGES IS CONSPICUOUS AND AFFORDS FAIR AND ADEQUATE NOTICE AND I REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED: [Signature] DATE: Jan 14, 01 TIME: 1730 A.M./P.M. (P.M.)
CUSTOMER Authorized Signatory

Customer Acceptance of Materials and Services **RELEASED**

THE CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ON THE ATTACHED ORDER NUMBER 1084821 [Signature] CUSTOMER Authorized Signatory

White-Office Canary-Field Office Pink-Customer **FROM CONFIDENTIAL** Green-Retain **MAR 18 2002**

ORIGINAL

TRILOBITE TESTING L.L.C.

KCC

P.O. Box 362 • Hays, Kansas 67601

N^o 13620

CONFIDENTIAL

FEB 02 2001

Test Ticket

CONFIDENTIAL

Well Name & No. <u>Wingsback "C-1"</u>	Test No. <u>1</u>	Date <u>1-10-2001</u>
Company <u>Oxy USA</u>	Zone Tested <u>Marion</u>	
Address <u>Liberal KS & Houston TX</u>	Elevation <u>2425</u> KB <u>2423</u> GL	
Co. Rep / Geo. <u>Cal Nylie</u>	Cont. <u>Cheyenne Pq 12</u>	Est. Ft. of Pay <u>5</u> Por. <u>12</u> %
Location: Sec. <u>15</u> Twp. <u>34S</u> Rge. <u>41W</u> Co. <u>Marion</u> State <u>KS</u>		
No. of Copies <u>2</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u></u>

Interval Tested <u>5040-5150</u>	Initial Str Wt./Lbs. <u>98,000</u>	Unseated Str Wt./Lbs. <u>98,000</u>
Anchor Length <u>110</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>22,000</u>
Top Packer Depth <u>5040</u>	Tool Weight <u>3,300</u>	
Bottom Packer Depth <u>5040</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>5150</u>	Wt. Pipe Run <u>—</u>	Drill Collar Run <u>631</u>
Mud Wt. <u>10.5</u> WL <u>9.6</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>4405 26' up</u>
Blow Description <u>Work 1/2" built to 2 1/4" in bucket 30 min. T.F.P.</u>		
<u>No blow-back T.S.T.P.</u>		
<u>Surface blow built to 1/2" in 10 min. Died in 40 min. F.F.P.</u>		
<u>No blow-back F.S.T.P.</u>		

Recovery — Total Feet <u>30</u>	GIP <u>0</u>	RECEIVED in DC <u>30</u>	Ft. in DP <u>0</u>
Rec. <u>30</u> Feet Of <u>100%</u>	%gas	%oil	%water <u>100</u> %mud
Rec. <u>—</u> Feet Of <u>—</u>	%gas	%oil	%water <u>—</u> %mud
Rec. <u>—</u> Feet Of <u>—</u>	%gas	%oil	%water <u>—</u> %mud
Rec. <u>—</u> Feet Of <u>—</u>	%gas	%oil	%water <u>—</u> %mud
Rec. <u>—</u> Feet Of <u>—</u>	%gas	%oil	%water <u>—</u> %mud
BHT <u>118</u> °F Gravity <u>—</u>	°API D@ <u>—</u>	°F Corrected Gravity <u>—</u>	°API <u>—</u>
RW <u>6.5</u> @ <u>51</u> °F	Chlorides <u>1200</u> ppm	Recovery	Chlorides <u>1100</u> ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2477</u>	<u>2400</u>		<u>3017 "46:15"</u>	<u>2:30 P.M.</u>
(B) First Initial Flow Pressure	<u>95</u>	<u>26</u>		(depth) <u>5042</u>	T-Started <u>4:35 P.M.</u>
(C) First Final Flow Pressure	<u>95</u>	<u>30</u>		Recorder No. <u>10242</u>	T-Open <u>6:25 P.M.</u>
(D) Initial Shut-In Pressure	<u>75</u>	<u>61</u>		(depth) <u>5147</u>	T-Pulled <u>10:55 P.M.</u>
(E) Second Initial Flow Pressure	<u>25</u>	<u>32</u>		Recorder No. <u>—</u>	T-Out <u>1:30 A.M.</u>
(F) Second Final Flow Pressure	<u>95</u>	<u>36</u>		(depth) <u>—</u>	T-Off Location <u>—</u>
(G) Final Shut-in Pressure	<u>95</u>	<u>64</u>		Initial Opening <u>30</u>	Test <u>1</u> ✓
(Q) Final Hydrostatic Mud	<u>2462</u>	<u>2380</u>		Initial Shut-in <u>60</u>	Jars <u>1</u> ✓
				Final Flow <u>60</u>	Safety Joint <u>1</u> ✓
				Final Shut-in <u>120</u>	Straddle <u>—</u>
					Circ. Sub <u>1</u>
					Sampler <u>1</u> ✓
					Extra Packer <u>—</u>
					Elec. Rec. <u>1</u> ✓
					Mileage <u>180</u> ✓
					Other <u>1 H.C.</u> ✓

11011615-017

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Tom Poirer

Our Representative Jimmy A. Salgado

RELEASED

MAR 18 2002

FROM CONFIDENTIAL

TOTAL PRICE \$ 1,710⁰⁰

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Oxy U.S.A.
 WELL NAME: Mingenback "C-1"
 LOCATION : 15-34S-41W
 INTERVAL : 5040.00 To 5150.00 ft

DATE 1-10-2001
 KB 3435.00 ft
 GR 3423.00 ft
 TD 5150.00 ft
 TICKET NO: 13620 DST #1
 FORMATION: Morrow
 TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10242	10242	Alpine			PF Fr. 1825 to 1855 hr
SI 60 Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 1855 to 1955 hr
SF 60 Clock(hrs)	12 HR	12 HR	Elect			SF Fr. 1955 to 2055 hr
FS 120 Depth(ft)	5147.0	5147.0	5042.0	0.0	0.0	FS Fr. 2055 to 2255 hr

	Field	1	2	3	4
A. Init Hydro	2477.0	0.0	2400.0	0.0	0.0
B. First Flow	95.0	0.0	26.0	0.0	0.0
B1. Final Flow	95.0	0.0	30.0	0.0	0.0
C. In Shut-in	95.0	0.0	61.0	0.0	0.0
D. Init Flow	95.0	0.0	32.0	0.0	0.0
E. Final Flow	95.0	0.0	36.0	0.0	0.0
F. Fl Shut-in	95.0	0.0	64.0	0.0	0.0
G. Final Hydro	2462.0	0.0	2380.0	0.0	0.0
Inside/Outside	I	I	I		

T STARTED 1635 hr
 T ON BOTM 1823 hr
 T OPEN 1825 hr
 T PULLED 2255 hr
 T OUT 0130 hr

TOOL DATA-----

Tool Wt. 3300.00 lbs
 Wt Set On Packer 20000.00 lbs
 Wt Pulled Loose 22000.00 lbs
 Initial Str Wt 98000.00 lbs
 Unseated Str Wt 98000.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.78 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 631.00 ft
 D.P. Length 4405.00 ft

RECOVERY

Tot Fluid 30.00 ft of 30.00 ft in DC and 0.00 ft in DP
 30.00 ft of Mud 100%
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 1200.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Weak 1/2" built to 2 1/4" in bucket. 30 min. I.F.P.

No blow-back. I.S.I.P.

Surface blow built to 1/2" in 10 min.
 Died in 40 min. F.F.P.

No blow-back. F.S.I.P.

Remarks: Est. 5 Ft. of Pay.

SAMPLES: None
 SENT TO:

KCC
 FEB 02 2001
 CONFIDENTIAL

RELEASED

MAR 18 2002

FROM CONFIDENTIAL

Test Successful: Y

MUD DATA-----

Mud Type Chem.
 Weight 9.20 lb/cf
 Vis. 59.00 S/L
 W.L. 9.60 in3
 F.C. 0.00 in
 Mud Drop Y 20.0 ft
 Amt. of fill 0.00 ft
 Btm. H. Temp. 118.00 F
 Hole Condition Good
 % Porosity 12.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Lanny Saloga
 Co. Rep. Tim Pierce
 Contr. Cheyenne
 Rig # 12
 Unit #
 Pump T.

*** TOOL DIAGRAM *** CONVENTIONAL

ORIGINAL
CONFIDENTIAL

WELL NAME: Mingenback "C-1"

LOCATION : 15-34S-41W

TICKET No. 13620 D.S.T. No. 1 DATE 1-10-2001

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 16

TOTAL TOOL 46

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 94

TOTAL ASSEMBLY 140

D.C. ABOVE TOOLS.Stands 7 Single Total 631

D.P. ABOVE TOOLS.Stands 48 Single 1 Total 4405

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5176

TOTAL DEPTH 5150

TOTAL DRILL PIPE ABOVE K.B. 26

REMARKS:

FLUID SAMPLER DATA

Total Vol. 4000 ML.
 Total Vol. Rec. 4000 ML.
 Oil 0 ML.
 Mud 4000 ML.
 Wtr. 0 ML.
 Gas 0 CF.
 Psi. 20
 Bht. 118 F.
 Pit RW. 6.2 Ohms at 56 F. 1,100 PPM.
 Rec RW. 6.5 Ohms at 51 F. 1,200 PPM.
 Gravity -- at -- F.

P.O. SUB Cir. sub	4830
C.O. SUB Top of tool	5010
Double pin	5011
S.I. TOOL Sterling	5016
H Sampler	5019
HMV Sterling	5024
JARS Bowen	5029
SAFETY JOINT Bowen	5031
PACKER Sparton	5036
PACKER Sparton	5040
DEPTH	
STUBB 1 ft.	5041
ANCHOR 1 ft. perf	5042
Alpine	5042
Pu. sub	5047
5 ft. perf	5052
Co. sub	5053
T.C. DEPTH	
1 std DP 94 ft.	5147
AK-1	5147
Co. sub	5148
BULLNOSE 2 ft. perf	
T.D.	5150

KCC
FEB 02 2001
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RELEASED
MAR 18 2002
FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FEB 02 2001

CONFIDENTIAL

CONFIDENTIAL

FLUID SAMPLER DATA

Ticket No. 12620 Date 1-10-2001

Company Name OXY USA

Lease Wingenback "C-1" Test No. 1

County Neosho Co. Sec. 15 Twp. 34S Rng. 41W

SAMPLER RECOVERY

PIT MUD ANALYSIS

Gas 0 CF ML

Chlorides 1100 ppm.

Oil 0 ML

Resistivity 6.2 ohms @ 56 F

Mud 4000 ML

Viscosity 59

Water 0 ML

Mud Weight 7.2

Other 0 ML

Filtrate 7.6

Pressure 20 PSI

Other 6.5 CF ML

Total Vol. Rec = 4000 ML

Total Vol. of chamber = 4000 ML

SAMPLER ANALYSIS

PIPE RECOVERY

Resistivity 6.5 ohms @ 51 F

TOP Resistivity ohms @ F

Chlorides 1200 ppm.

Chlorides ppm.

Gravity corrected @ 60 F

MIDDLE Resistivity ohms @ F

Chlorides ppm.

BOTTOM Resistivity ohms @ F

Chlorides ppm.

RELEASED

MAR 18 2002

FROM CONFIDENTIAL

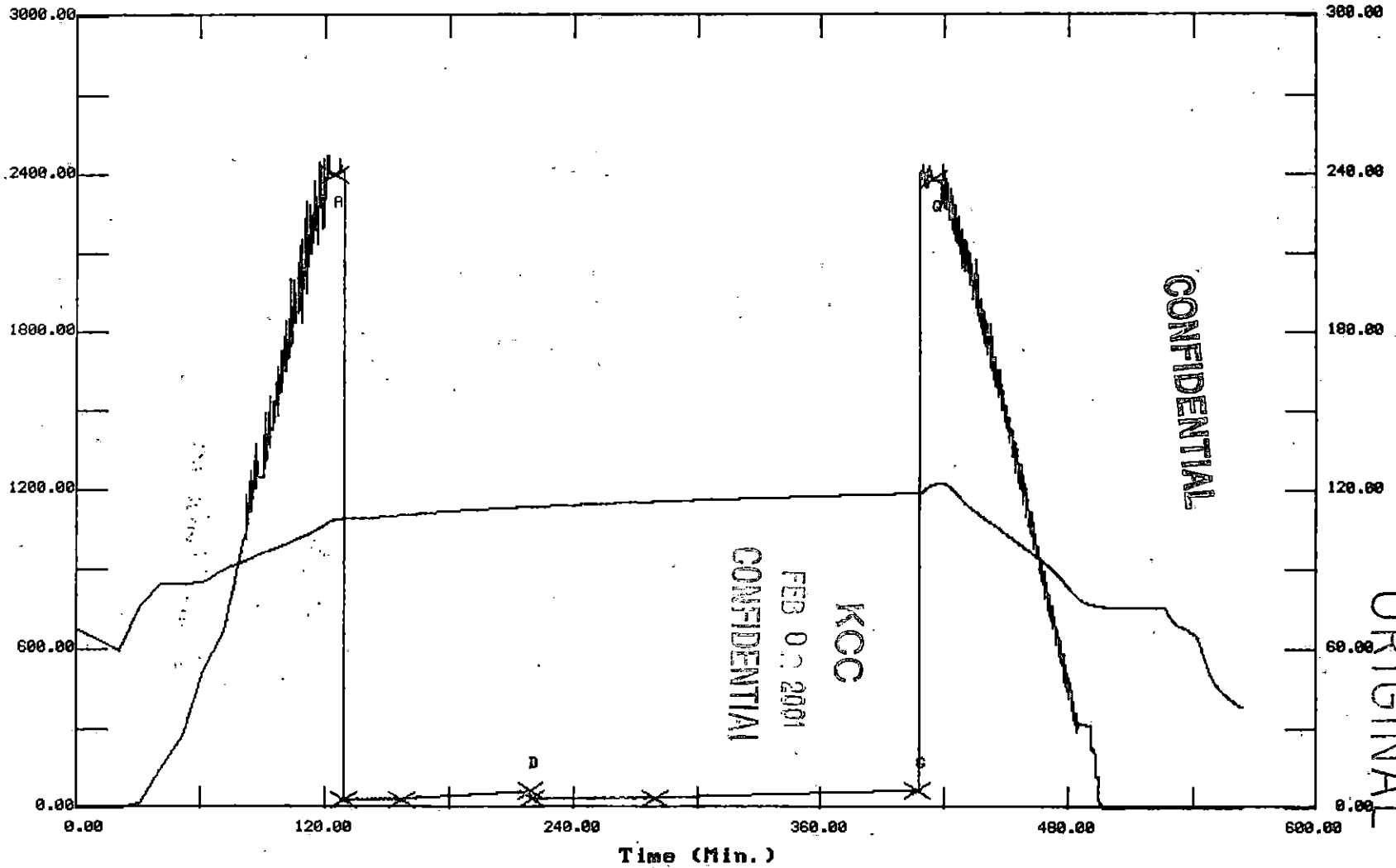
TEST HISTORY

13620 D.S.T.#1 Mingenback "C-1" Oxy U.S.A.

Flag Points

t<Min.) P< PSig>

A:	0.00	2400.07
B:	0.00	26.96
C:	27.75	30.33
D:	62.25	61.63
E:	0.00	32.27
F:	59.75	36.23
G:	127.00	64.53
Q:	0.00	2300.24



Pressure (PSig)

FROM CONFIDENTIAL

MAR 18 2002

RELEASE

Time (Min.)

CONFIDENTIAL

CONFIDENTIAL

FEB 02 2001

KCC

ORIGINAL