

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 **KCC**  
 Phone: (316) 629-4200  
 Contractor: Name: CHEYENNE DRILLING INC **DEC 12 2000**  
 License: 5382  
 Wellsite Geologist: TIM HEDRICK **CONFIDENTIAL**  
 Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl, Cathodic, etc)  
 If Workover/Re-entry: Old Well Info as follows:  
 Operator: \_\_\_\_\_  
 Well Name: \_\_\_\_\_  
 Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. To \_\_\_\_\_/SWD  
 Plug Back  Plug Back Total Depth \_\_\_\_\_  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)  Docket No. \_\_\_\_\_  
 11-10-00  11-20-00  
 Spud Date or  Date Reached TD  Completion Date or  
 Recompletion Date  Recompletion Date

API No. 15 - 129-216240000  
 County: MORTON  
SW - NE - SE - SW Sec 22 Twp. 34 S. R. 40W  
716 feet from (S) N (circle one) Line of Section  
2170 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 A Well #: 4  
 Field Name: \_\_\_\_\_  
 Producing Formation: \_\_\_\_\_  
 Elevation: Ground: 3426 Kelly Bushing: 3439  
 Total Depth: 6480 Plug Back Total Depth: \_\_\_\_\_  
 Amount of Surface Pipe Set and Cemented at 1706 feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set \_\_\_\_\_  
 If Alternate II completion, cement circulated from \_\_\_\_\_  
 depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.  
 Drilling Fluid Management Plan **ACT 1 P3A**  
Fluid must be collected from the Reserve Pit **DW 3-18-02**  
 Solids content 900 ppm Fluid volume 1600 bbls  
 Desilting method used EVAPORATION  
 Location of fluid disposal if hauled offsite: \_\_\_\_\_  
 Operator Name: **RELEASED**  
 Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
 Quarter \_\_\_\_\_ Sec. **MAR 18 2002**  East  West  
 County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

RECEIVED  
STATE CORPORATION COMMISSION  
WICHITA, KANSAS  
DEC 13 2000

CONSERVATION DIVISION  
WICHITA, KANSAS

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 12/12/00  
 Subscribed and sworn o before me this 12th day of December  
00  
 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

# CONFIDENTIAL

Side Two

Operator Name: OXY USA, Inc. Lease Name: MINGENBACK A Well #: 4  
 Sec. 122 Twp. 34 S. R. 40W  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 <u>TOPEKA</u> Top <u>3480</u> Datum <u>-40</u>	
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>HEEBNER</u> <u>070</u> <u>3990</u> <u>-550</u>	
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>ALANSING</u> <u>4078</u> <u>-638</u>	
List All E. Logs Run:	GEO. REPORT SONIC / GAMMA RAY	MARMATON <u>4722</u> <u>-1284</u>	
	NEUTRON LOG MICROLOG INDUCTION LOG	CHEROKEE <u>5055</u> <u>-1615</u>	
		MORROW <u>5526</u> <u>-2086</u>	
		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	1706	C	525	2% CC 1/4# FLOCELE
Production					C		

### ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top-Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate				
Protect Casing				
Plug Back TD				
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 3100' 100SXS 60/40/6 CLASS H POZ MIX		
	1730' 50SXS 60/40/6 CLASS H POZ MIX		
	540' 40SXS 60/40/6 CLASS H POZ MIX		
	40' 10SXS 60/40/6 CLASS H POZ MIX		
	15SXS IN RAT HOLE AND 10SXS IN MOUSE HOLE	PLUG WELL 11-21-00	
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  Open Hole  Perf.  Dually Comp.  Commingled  
 (If vented, Submit ACO-18)

METHOD OF COMPLETION:  Other (Specify) PANDA 11-21-00

Production Interval: \_\_\_\_\_

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**ORIGINAL**

MINGENBACK A #4 THIRD PAGE

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LOG	FORMATION (TOP)	DEPTH AND DATUM
CHESTER	6081	-2641
STE. GEN.	6135	-2795
ST. LOUIS	6300	-2860

**KCC**  
**DEC 12 2000**  
**CONFIDENTIAL**

**RELEASED**  
**MAR 18 2002**  
**FROM CONFIDENTIAL**

**INDEPENDENT DIGITAL PRINTING COMPANY  
INDEPENDENT OIL AND GAS SERVICE, INC.**

226 N. Emporia  
Wichita, KS 67202  
(316) 263-8281

1-800-536-8281  
FAX (316) 263-0874  
TOLL FREE FAX 1-888-263-3188

**FACSIMILE TRANSMITTAL**

Please deliver to:

NAME: Janice Martin  
COMPANY: KCC  
FROM: Becky  
TOTAL NUMBER OF PAGES (INCLUDING THIS PAGE): 2  
DATE: 4-1-02

If you do not receive all the pages or have problems with receiving this transmittal, please call.

*Attach this det (1) to  
ACO - OX4 USA  
#4 Mingenback A  
API 15-129-21624*

*per our ph call earlier  
Today*

*Thank you  
Becky*

SH- Lt G<sub>1</sub> G<sub>1</sub>  
ABOT SFT G<sub>1</sub> CLAM  
CLADG TO SCTY

SS- FRSTY CLM  
F. MO. CRs. Geds Ang S. Ang V/PR.  
SFT V/CALE CMNT SMC IMB<sub>1</sub> SH  
CLAVE W/ TR ANG Lm GRDS I.R. ABOT  
TR Pur. CLAS No Flo.

SS- CLM FRSTY  
MO. CRs. GRNS ANG S. Ang S. RND  
ABOT IMB<sub>1</sub> GRNS TR SIL CMNT TR  
CLAVE TR DMS SH No Flo. ? & No  
Vis. CUT

WT 90  
Vis 60  
Len 70

SH- CLANG GRN RE  
FRM TO MO. HO SFT  
SLI SCTY.

SH- PLEN A/AB  
SLI SCTY

Ls- RASH BRN  
V/ SUCR<sub>1</sub> WTR V/AREN  
TO SNOY TR IMB<sub>1</sub> SH  
I.R. No Flo No Vis &  
No SHOW

Ls- CLM TH  
V/ SUCR<sub>1</sub> WTR F. XLM  
I.R. V/AREN TO SNOY  
MICRO I.R. No Flo No Vis  
& No SHOW

WT 91  
Vis 60  
Len 70

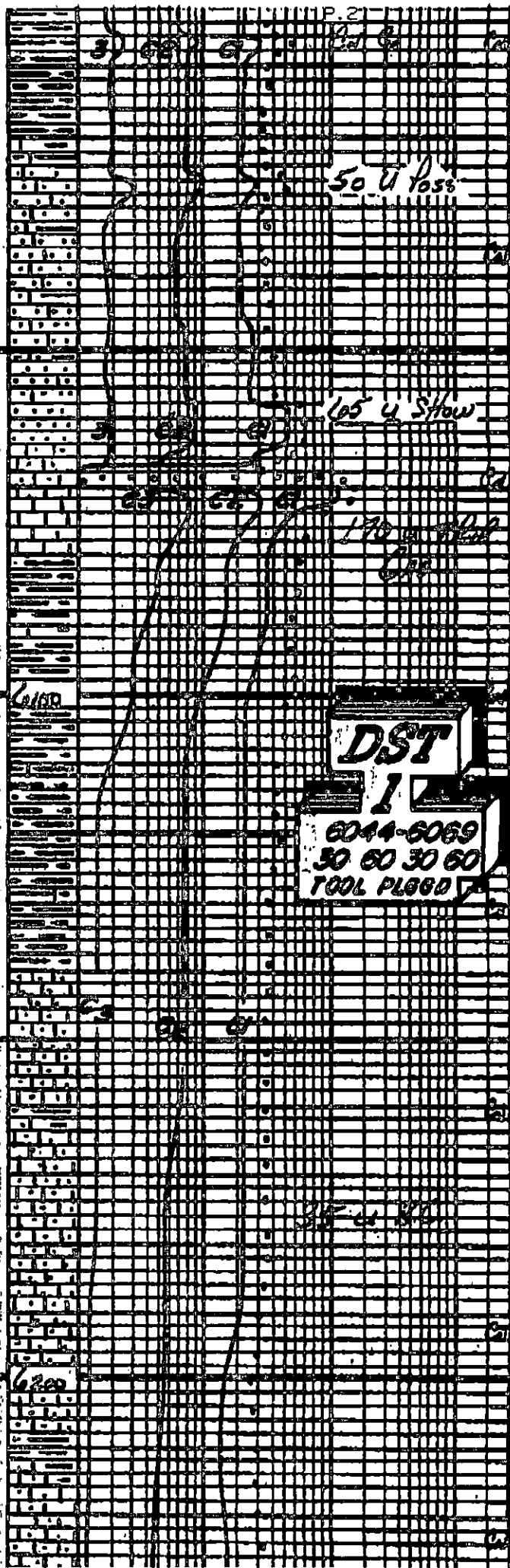
50 u Pass

105 u Show

170 u Show

**DST**  
 6044-6069  
 30 60 30 60  
 TOOL PLOGG

35 u Show



D  
S  
T  
O  
M  
E

Gen.

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# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N° 12251

## Test Ticket

# ORIGINAL

Well Name & No. Mingensack #A-4 Test No. 02 Date 11-21-00  
 Company Oxy USA Inc. Zone Tested St. Louis  
 Address Rt 2500 & L. Blvd / P.O. 67905 Elevation 3439 KB 3426 GL  
 Co. Rep / Geo. Col Wylie Cont. Chryanne Rj #12 Est. Ft. of Pay 17 Por. 12 %  
 Location: Sec. 22 Twp. 34S Rge. 40W Co. Morton State KS  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 6337-6360 Initial Str Wt./Lbs. 103,17 Unseated Str Wt./Lbs. 118,000  
 Anchor Length 23' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 110,000  
 Top Packer Depth 6332 Tool Weight 2,000  
 Bottom Packer Depth 6360 Hole Size — 7 7/8" X Rubber Size — 6 3/4" X  
 Total Depth 6480 Wt. Pipe Run N/A Drill Collar Run 6.30' 75HX  
 Mud Wt. 9.0 LCM 6" Vis. 52 WL 7.6 Drill Pipe Size 4.5 X 0 Ft. Run 5801.62 3/4 15-1/2  
 Blow Description 1st Opening - Strong Blow Bl. R. in 2 min. KCC  
1st Bl. off 2" Tool 4 min  
2nd Opening Strong Blow Bl. Bin 4 min  
FSI. Bl. off Blow NO Blow Back

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Recovery — Total Feet 3815' GIP \_\_\_\_\_ Ft. in DC 630' Ft. in DP 3185'  
 Rec. 180 Feet Of M-W %gas \_\_\_\_\_ %oil 60 %water 40 %mud \_\_\_\_\_  
 Rec. 455' Feet Of M-W %gas \_\_\_\_\_ %oil 90 %water 10 %mud \_\_\_\_\_  
 Rec. 3180 Feet Of Water %gas \_\_\_\_\_ %oil 100 %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet Of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet Of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 133 °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW - 421 @ 62 °F Chlorides 19500 ppm Recovery Chlorides 800 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>3746</u>	<u>3130</u>	<u>2357</u>	<u>Silvan</u>
(B) First Initial Flow Pressure	<u>478</u>	<u>359</u>	(depth) <u>6340</u>	T-Started <u>3:35pm</u>
(C) First Final Flow Pressure	<u>1221</u>	<u>1237</u>	PSI Recorder No. <u>10993</u>	T-Open <u>6:00pm</u>
(D) Initial Shut-In Pressure	<u>1832</u>	<u>1802</u>	PSI (depth) <u>6356</u>	T-Pulled <u>10:30pm</u>
(E) Second Initial Flow Pressure	<u>1360</u>	<u>1237</u>	PSI Recorder No. <u>13278</u>	T-Out <u>2:30am</u>
(F) Second Final Flow Pressure	<u>1800</u>	<u>1762</u>	PSI (depth) <u>6478</u>	T-Off Location <u>4:00am</u>
(G) Final Shut-in Pressure	<u>1811</u>	<u>1803</u>	PSI Initial Opening <u>30min</u>	Test <input checked="" type="checkbox"/> Confidential Straddle
(Q) Final Hydrostatic Mud	<u>3216</u>	<u>3028</u>	PSI Initial Shut-in <u>6min</u>	Jars <input checked="" type="checkbox"/>
			Final Flow <u>60min</u>	Safety Joint <input checked="" type="checkbox"/>
			Final Shut-in <u>120min</u>	Straddle <input checked="" type="checkbox"/>

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 [Signature]  
 Our Representative [Signature]

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MAR 18 2002

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Circ. Sub  N/C  
 Sampler   
 Extra Packer   
 Elec. Rec.   
 Mileage  \$50.00  
 Other  \$360.00  
 TOTAL PRICE \$ 2360.00

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TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : OXY USA INC.  
WELL NAME: Mingenback #A-4  
LOCATION : 22-34S-40W  
INTERVAL : 6337.00 To 6360.00 ft

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DATE 11-21-00

KB 3439.00 ft  
GR 3426.00 ft  
TD 6480.00 ft  
TICKET NO: 12251 DST ##2  
FORMATION: St.Lewis  
TEST TYPE: CONV. STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10993	10993	2357	13278		PF Fr. 1800 to 1830 hr
SI 60 Range(Psi )	4250.0	4250.0	4995.0	4400.0	0.0	IS Fr. 1830 to 1930 hr
SF 60 Clock(hrs)	12HR.	12HR.	Elet.	12HR.		SF Fr. 1930 to 2030 hr
FS 120 Depth(ft )	6356.0	6356.0	6340.0	6478.0	0.0	FS Fr. 2030 to 2230 hr

	Field	1	2	3	4
A. Init Hydro	3746.0	0.0	3130.0	3372.0	0.0
B. First Flow	478.0	0.0	359.0	0.0	0.0
B1. Final Flow	1221.0	0.0	1237.0	0.0	0.0
C. In Shut-in	1832.0	0.0	1802.0	0.0	0.0
D. Init Flow	1360.0	0.0	1239.0	0.0	0.0
E. Final Flow	1800.0	0.0	1769.0	0.0	0.0
F. Fl Shut-in	1811.0	0.0	1803.0	0.0	0.0
G. Final Hydro	3216.0	0.0	3028.0	3032.0	0.0
Inside/Outside	0	0	I	0	

T STARTED 1535 hr  
T ON BOTM 1753 hr  
T OPEN 1800 hr  
T PULLED 2230 hr  
T OUT 0230 hr

TOOL DATA-----

Tool Wt. 2000.00 lbs  
Wt Set On Packer 25000.00 lbs  
Wt Pulled Loose 140000.00 lbs  
Initial Str Wt 103000.00 lbs  
Unseated Str Wt 118000.00 lbs  
Bot Choke 0.75 in  
Hole Size 7.78 in  
D Col. ID 2.50 in  
D. Pipe ID 3.80 in  
D.C. Length 630.00 ft  
D.P. Length 5801.00 ft

RECOVERY

Tot Fluid 3815.00 ft of 630.00 ft in DC and 3185.00 ft in DP  
180.00 ft of M-W 60%Water 40%Mud  
455.00 ft of M-W 90%Water 10%Mud  
3180.00 ft of Water 100%  
0.00 ft of  
0.00 ft of  
0.00 ft of  
0.00 ft of  
0.00 ft of

KCC

DEC 12 2000

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SALINITY 19500.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type Chemical  
Weight 9.00 lb/cf  
Vis. 52.00 S/L  
W.L. 7.60 in<sup>3</sup>  
F.C. 0.00 in  
Mud Drop Y 15.0 ft

BLOW DESCRIPTION

1st opening Strong blow B.O.B in 2 min.  
2nd opening Strong blow B.O.B in 4 min.  
ISI-FSI No blow back.

Amt. of fill 0.00 ft  
Btm. H. Temp. 133.00 F  
Hole Condition Good  
% Porosity 12.00  
Packer Size 6.75 in  
No. of Packers 3  
Cushion Amt. 0.00  
Cushion Type  
Reversed Out N  
Tool Chased N  
Tester Mike Colantonio  
Co. Rep. Cal Wylie  
Contr. Cheyenne  
Rig # #12  
Unit #  
Pump T.

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SAMPLES: NO  
SENT TO:

Test Successful: Y

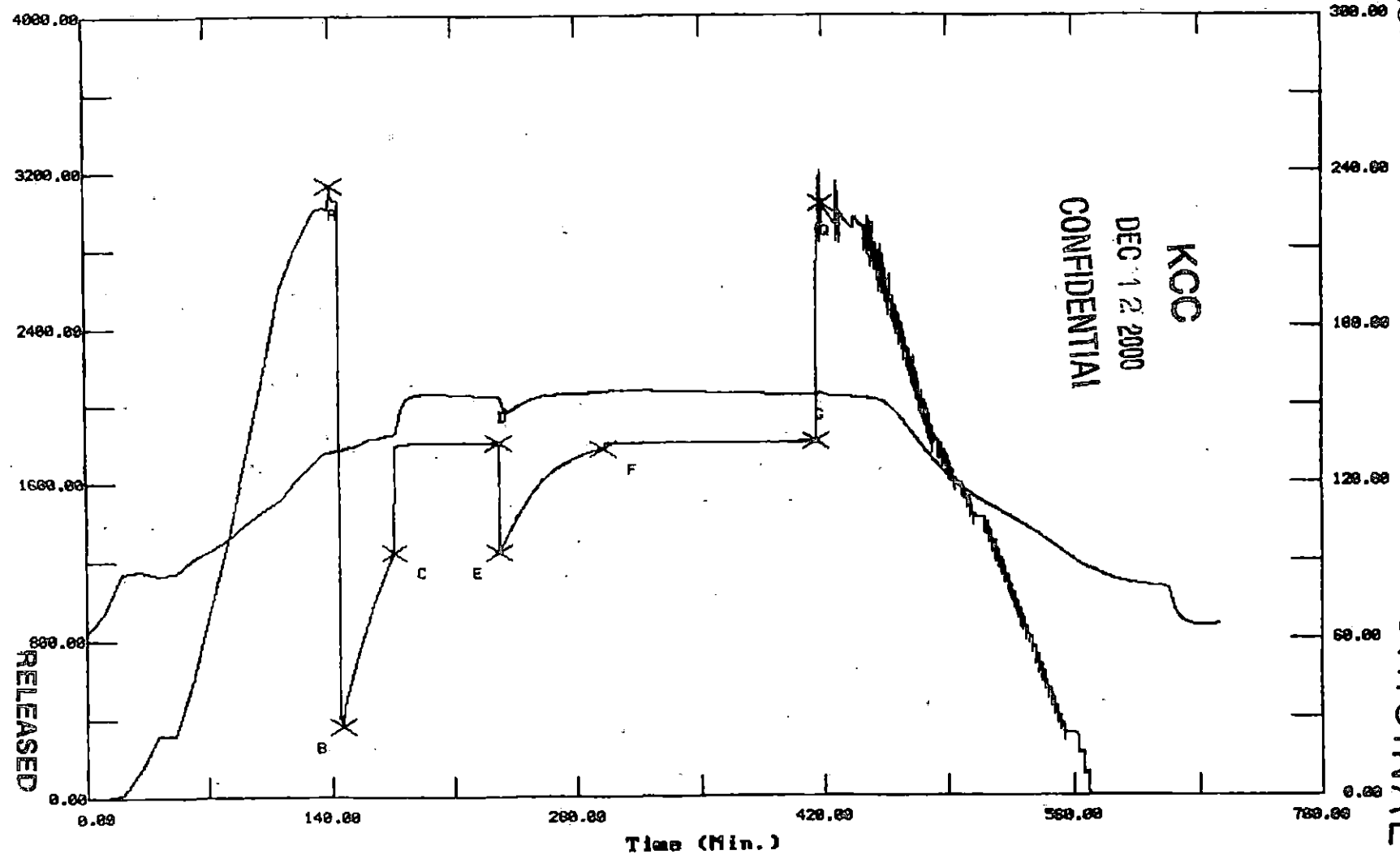
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 ORIGINAL

# TEST HISTORY

12251 DST#2 Mingenback #A-4 OXY USA Inc.

Flag Points

	t(Min.)	PX PSIq)
A:	0.00	3130.12
B:	0.00	359.65
C:	30.00	1237.11
D:	59.75	1802.85
E:	0.00	1239.63
F:	59.50	1769.93
G:	120.00	1883.44
Q:	0.00	3028.94



(GISD) annsaa FROM CONFIDENTIAL

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JOB LOG

ORDER NO. 70006

TICKET # 979624

TICKET DATE

REGION North America

COUNTRY Mexico U.S.A.

EDA / STATE KANSAS

COUNTY Morton

MBU ID / EMP # 106270

EMPLOYEE NAME ROBERT ELWOOD

PSL DEPARTMENT ORIGINAL

LOCATION Liberal KANSAS

COMPANY OXY U.S.A.

CUSTOMER REP / PHONE CAI WYLLIE 629-0433

TICKET AMOUNT 10,776.70

WELL TYPE 01

API / UWI # 15-129-21624

KCC

WELL LOCATION POLLA KANSAS

DEPARTMENT 27

JOB PURPOSE CODE 010

DEC 12 2000

LEASE / WELL # MENGENBACK #4

SEC / TWP / RNG 22 34 S. 40 W.

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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. CLEMENS 198516			
J. LOPEZ 198514			
B. DAVIS 102318			

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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
11-10-00	2100							Called out ready 01:00 11-11-00
	2230							DEPART FROM BASE
	2337							ON LOCATION Rig Delg
11-11-00	0015							T.O.
	0130							T.O.O.W
	245							Safety Meeting
	300							START Csg
	430							Csg on Bottom
	436							Circulate w/ pig
	500							Hook to backwash
	501					2300		Pressure Test
	507	1.1	196			250		START LEAD CNT @ 19.2 #/gal
	539	3.9	35.8			200		START TPT. CNT @ 14.7 #/gal
	545					WPC		SHUT DOWN
	546					WPC		Wrap 5-WIPER Tap Pig
	547	4.5	105			100		START H <sub>2</sub> O Displacement WASH Pump & TELL
	610					500		Pig Start
	611					1000		Return Back Float Holding
	615					0		Job Complete

Circulated CNT to PIT

RELEASED

MAR 18 2002

FROM CONFIDENTIAL

THANK YOU FOR CALLING  
HALLIBURTON  
ROBERT E. CREW

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ORIGINAL



HALLIBURTON

Work Order Contract

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Halliburton Energy Services, Inc.
Houston Texas 77056

Order Number

979624

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:

Table with columns: Well No., Farm or Lease, County, State, Well Permit #, Customer, Well Owner, Job Purpose. Includes handwritten entries like 'MISUNGENACK', 'MORTON', 'KS', '15-129-21624', 'OXY U.S.A.', 'SARIF', '210', 'KCO', 'DEC 12 2000'.

THIS WORK ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

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- 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.
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.

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.

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.

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.

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.

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.

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.

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.

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: [ ] TIME: [ ] RELEASED A.M./P.M.

Customer Acceptance of Materials and Services MAR 18 2002

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

[Signature] CUSTOMER Authorized Signatory FROM CONFIDENTIAL

White-Office

Canary-Field Office

Pink-Customer

Green-Retain



# JOB SUMMARY

ORDER NO. 70006

TICKET #

999529

TICKET DATE

11-22-2000

REGION North America	COUNTRY USA	BDA / STATE KS.	COUNTY Morton.
MBU ID / EMP # MCL20/03 106304	EMPLOYEE NAME TYCO DAVID.	PSL DEPARTMENT ZF	ORIGINAL KCC
LOCATION Liberal W.	COMPANY Oxy USA	CUSTOMER REP / PHONE C91-WY/116.	
TICKET AMOUNT	WELL TYPE 02	API / UWI # 15-129-21624	DEC 12 2000
WELL LOCATION Land - S.W. Rolla.	DEPARTMENT ZF	JOB PURPOSE CODE 115	
LEASE / WELL # Morton Block.	SEC / TWP / RNG 22-34-40		

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
T. Davis - 106304   8			
S. Engel - 106099   8			
C. Wartz - 194445   8			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
54218-78202	104						
54225-75221	21						

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
	11-22-2000	11-22-2000	11-22-2000	11-22-2000
TIME	0300	0600	1050	1340

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
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	20	4 1/2	KB	3100	
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
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.	ln
NE Agent	Gal.	ln
Fluid Loss	Gal/Lb	ln
Gelling Agent	Gal/Lb	ln
Fric. Red.	Gal/Lb	ln
Breaker	Gal/Lb	ln
Blocking Agent	Gal/Lb	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				PTA
TOTAL		TOTAL		

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

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	RELEASED	YIELD	LBS/GAL
1	225	From 6940	6	6% Gel		1.65	13.1
					MAR 18 2002		

Circulating \_\_\_\_\_ Displacement \_\_\_\_\_ Preflush: Gal - BBI \_\_\_\_\_ Type \_\_\_\_\_  
 Breakdown \_\_\_\_\_ Maximum \_\_\_\_\_ Load & Bkdn: Gal - BBI \_\_\_\_\_ Pad: BBI - Gal \_\_\_\_\_  
 Average \_\_\_\_\_ Frac Gradient \_\_\_\_\_ Treatment Gal - BBI \_\_\_\_\_ Disp: BBI Gal 33  
 Shut In: Instant \_\_\_\_\_ 5 Min \_\_\_\_\_ 15 Min \_\_\_\_\_ Cement Slurr Gal - BBI 66  
 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

REGION North America COUNTRY USA BDA / STATE KS COUNTY McPherson

MSU ID / EMP # 106304 EMPLOYEE NAME [Redacted] PSL DEPARTMENT ZS

LOCATION [Redacted] COMPANY Oxy [Redacted] CUSTOMER REP / PHONE [Redacted] ORIGINAL KCC

TICKET AMOUNT [Redacted] WELL TYPE [Redacted] API / UWI # 15 179 21671

WELL LOCATION [Redacted] DEPARTMENT ZS JOB PURPOSE CODE 113 DEC 12 2000

LEASE / WELL # [Redacted] SEC / TWP / RNG 22 34-40

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
[Redacted]	8	[Redacted]	8	[Redacted]	8	[Redacted]	8

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0300							Called out for job.
	0600							on loc. Mid L.D.P.C.
	0730							TEH W.D.P.
	0820							L.D.P.C.
	1050	2.0	10	✓		200		1 <sup>st</sup> plug at 2100ft
	1052	6.5	29	✓		430		Pump H <sub>2</sub> O spacer
	1056	5.0	3.5	✓		130		Pump 100% prem 60/40 P02 at 13.1"
	1058	6.0	29.5	✓		100		Pump H <sub>2</sub> O spacer
	1102	0		✓		0		Pump mud disp
								Shut down Pull D.P.
	1141	6.0	10	✓		150		2 <sup>nd</sup> plug at 1730ft
	1145	6.0	14.6	✓		300		Pump H <sub>2</sub> O spacer
	1147	6.0	3.5	✓		50		Pump 50% prem 60/40 at 13.1"
	1148	6.0	15	✓		100		Pump H <sub>2</sub> O spacer
	1150	0				0		Pump mud disp
								Shut down Pull D.P.
	1226	6.0	3.0	✓		100		3 <sup>rd</sup> plug at 340ft
	1235	6.5	11.7	✓		120		Pump H <sub>2</sub> O
	1237	4.0	4	✓		90		Pump 40% prem 60/40 at 13.1"
	1239	0						Pump disp.
								Shut down Pull D.P.
	1325		10	✓				4 <sup>th</sup> plug at 40ft
	1330		3	✓		0		H <sub>2</sub> O
	1335		4.5	✓		0		amt 10% prem 60/40 P02 at 13.1"
	1340		3	✓		0		plug req
								Run moya.
								Job over
								Thank for calling H.H.
								Type Scott crew

RELEASED  
MAR 18 2002  
FROM CONFIDENTIAL

CONFIDENTIAL

ORIGINAL



HALLIBURTON

Work Order Contract

Halliburton Energy Services, Inc.
Houston Texas 77056

Order Number

999529

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:

Table with columns: Well No, Farm or Lease, County, State, Well Permit #, Customer, Well Owner, Job Purpose. Includes handwritten entries like 'MAYONABUCK', 'MORION', 'KS', 'DEC 2000', 'OXY USA', 'SCUM', '115'.

THIS WORK ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

CONFIDENTIAL

- 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.
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.
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 venturers with Customer.

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.

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.

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.

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.

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.

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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: 11-22-2000 TIME: 0700 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

CUSTOMER Authorized Signatory

MAR 18 2002

White-Office

Canary-Field Office

Pink-Customer

FROM CONFIDENTIAL