

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 U.S.A. Inc.
 Address P.O. Box 27570

City/State/Zip Houston, TX 77227-7570

Purchaser: None

Operator Contact Person: Bill Berry

Phone (713) 215-7310

Contractor: Name: Cheyenne Drilling

License: 5382 11-30-98

Wellsite Geologist: None

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/Reentry: Old Well Info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBDT

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

7/18/98 7/25/98 N/A

Spud Date Date Reached TD Completion Date

API NO. 15- 129-21562-00-00

County Morton

C - NW/4 - NE/4 Sec. 16 Twp. 34S Rge. 42 X E

660 FNL Feet from S/W (circle one) Line of Section

1980 FEL Feet from E/W (circle one) Line of Section

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

Lease Name SANTA FE C Well # 3

Producing Formation None

Elevation: Ground 3455 KB 3466

Total Depth 5000 PBDT 4327

Amount of Surface Pipe Set and Cemented at 1282 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan HH-1, 12-15-98 U.C.
 (Data must be collected from the Reserve Pit)

Chloride content 2000 ppm Fluid volume 1200 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

____ Quarter Sec. _____ Twp. _____ S Rge. _____ E/W

County _____ Docket No. _____

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

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

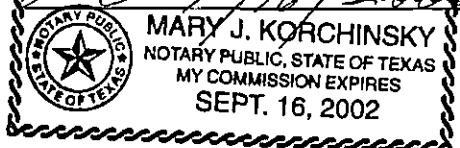
Signature Bill Berry

Title Engineering Technician Date 11/18/98

Subscribed and sworn to before me this 18 day of November, 19 98.

Notary Public Mary J. Korchinsky

Date Commission Expires _____



K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Drillers Timelog Received

Distribution

KCC SWD/Rep NGPA

KGS Plug Other

(Specify)

SIDE TWO

ORIGINAL

Operator Name OXY U.S.A. Inc. Lease Name SANTA FE CO Well # 3
 East County Morton
 Sec. 16 Twp. 34S Rge. 42 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

Name	Formation (Top), Depth and Datums		<input type="checkbox"/> Sample
	Top	Datum	
Marmaton	3650	-184	
Cherokee	3758	-292	
Morrow	4186	-720	
Keys	4618	-1152	
Chester	4690	-1224	

List All E.Logs Run:
 Borehole Compensated Sonic Log Gamma Ray
 Microlog Gamma Ray
 Platform Express Array Induction/SP Micro Resist.
 Platform Express Compensated Neutron Litho Densit

CASING RECORD New 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	1282	Class A	450	3% CC
Production	7 7/8	5 1/2	14 & 15.5	4374	Class A	185	2% CC

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input checked="" type="checkbox"/> Plug Off Zone	4421-4595	Class H	50	

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
4	4263 - 4268	Acidize w/720 gal. 7 1/2% Fe-MCA	

TUBING RECORD Size 2 3/8 Set At 4247 Packer At None Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. N/A Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours N/A Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: METHOD OF COMPLETION Production Interval
 Vented Sold Used on Lease Open Hole Perforation Dually Comp. Commingled
 (If vented, submit ACO-18.) Other (Specify)

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket

15-129-21562
No. 10763

Well Name & No. Santa Fe "C-3" Test No. 1 Date 7-23-98
 Company Oxy U.S.A. Zone Tested Upper Permian
 Address Liberal Ks. & Houston Tx Elevation 3466 KB 3455 GL
 Co. Rep / Geo. Col. Myrie Cont. Cheyenne Rig 3 Est. Ft. of Pay 10 Por. 25 %
 Location: Sec. 16 Twp. 34S Rge. 42W Co. Morton State Ks.
 No. of Copies Req. Distribution Sheet (Y, N) N. Turnkey (Y, N) N. Evaluation (Y, N) _____

Interval Tested 4180-4300 Initial Str Wt./Lbs. 69,000 Unseated Str Wt./Lbs. 70,000
 Anchor Length 120' Tool = 30' Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 40,000
 Top Packer Depth 4175 Tool Weight 3,300
 Bottom Packer Depth 4180 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 4300 Wt. Pipe Run _____ Drill Collar Run 700
 Mud Wt. 9.0 LCM 6# Vis. 46 WL 8.8 Drill Pipe Size 4 1/2 x H. Ft. Run 3474 24' up

Blow Description Went 1/2" built to string OBB in 6 min. To F.P.
No blow-back. To S. T.P.
Went 1/2" built to 3 1/2" in 5 min. To F.P.
Hole extremely sticky. Pulled loose immedi. after rotating for F.S.T.P.
 Recovery — Total Feet 60 GIP 1,140 Ft. in DC 60 Ft. in DP 0

Rec.	Feet Of	%gas	%oil	%water	%mud
<u>60</u>	<u>Mud</u>			<u>100</u>	
____	Feet Of _____	%gas	%oil	%water	%mud
____	Feet Of _____	%gas	%oil	%water	%mud
____	Feet Of _____	%gas	%oil	%water	%mud
____	Feet Of _____	%gas	%oil	%water	%mud

BHT 111 °F Gravity _____ °F Corrected Gravity _____ °API _____

RW 266 @ 8.3 °F Chlorides 1,840 ppm Recovery Chlorides 1,800 ppm System

(A) Initial Hydrostatic Mud 2090 | 1990 PSI Recorder No. 3017 "07-42" T-Started 7:50 AM
 (B) First Initial Flow Pressure 162 | 33 PSI (depth) 4182 T-Open 9:35 AM
 (C) First Final Flow Pressure 162 | 43 PSI Recorder No. 13630 T-Pulled 11:10 AM
 (D) Initial Shut-in Pressure 178 | 59 PSI (depth) 4297 T-Out 2:15 P.M.
 (E) Second Initial Flow Pressure 171 | 45 PSI Recorder No. _____
 (F) Second Final Flow Pressure 171 | 43 PSI (depth) _____
 (G) Final Shut-in Pressure _____ | _____ PSI Initial Opening 30 Test
 (H) Final Hydrostatic Mud 2066 | 1955 PSI Initial Shut-in 60 Jars

72380742.017
 Final Flow 5 Safety Joint
 Final Shut-in _____ Straddle _____
 Pulled tool loose immed. after rotating for F.S.T.P.
 Circ. Sub
 Sampler
 Extra Packer _____
 Elect. Rec.
 Other _____
 TOTAL PRICE \$ _____

Approved By Tom Heflin
 Our Representative Jimmy J. Salaga

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.



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

INVOICE

HALLIBURTON ENERGY SERVICES
 A Division of Halliburton Company

INVOICE NO:	DATE:
234398	07/18/1998

WELL/LEASE NO./PROJECT	WELL/PROJECT, LOCATION	STATE	OWNER
SANTA FE C 3	MORTON	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
LIBERAL		SHOWN BELOW	07/18/1998
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
659167	JAKE SLATTEN	E-26	
			SHIPPED VIA
			COMPANY TRUCK
			FILE NO.
			44004

ORIGINAL

DIRECT CORRESPONDENCE TO:

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

P O BOX 1598
 LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	SUM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT SURFACE CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	120 MI		3.65	438.00
	DISCOUNT-(BID)	1 UNT			
		41.0 %			179.58-
000-119	MILEAGE FOR CREW	120 MI		2.15	258.00
	DISCOUNT-(BID)	1 UNT			
		41.0 %			105.78-
001-016	CEMENTING CASING	274 FT		1,630.00	1,630.00
	DISCOUNT-(BID)	1 UNT			
		41.0 %			668.30-
16A	CASING SHOE - 8 5/8" BRD THD.	1 EA		268.00	268.00
830.2171	DISCOUNT-(BID)				
		32.0 %			85.76-
24A	INSERT FLOAT VALVE - 8 5/8" BRD	1 EA		207.00	207.00
815.19502	DISCOUNT-(BID)				
		32.0 %			66.24-
27	FILL-UP UNIT 7"- 8 5/8"	1 EA		81.00	81.00
815.19415	DISCOUNT-(BID)				
		32.0 %			25.92-
41	CENTRALIZER - 8-5/8" X 12-1/4	4 EA		71.40	285.60
806.61048	DISCOUNT-(BID)				
		32.0 %			91.39-
320	BASKET-CMT-8 5/8 CSG X 21"-S	1 EA		146.00	146.00
806.71460					

CONSERVATION DIVISION
 Wichita, Kansas
 NOV 30 1998
 RECEIVED
 STATE CORPORATION COMMISSION

++++ CONTINUED ON NEXT PAGE +++++

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 of 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.

AFFIX JOB TKT

ORDER NO. 10900

PAGE 1

CUSTOMER COPY



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

INVOICE

HALLIBURTON ENERGY SERVICES A Division of Halliburton Company

Table with columns: INVOICE NO. (234098), DATE (07/18/1998)

Table with columns: WELL LEASE NO./PROJECT (SANTA FE C 3), WELL/PROJECT LOCATION (MORTON), STATE (KS), OWNER (SAME), SERVICE LOCATION (LIBERAL), CONTRACTOR, JOB PURPOSE (SHOWN BELOW), TICKET DATE (07/18/1998), ACCT. NO. (859167), CUSTOMER AGENT (JAKE SLATTEN), VENDOR NO. (E-26), CUSTOMER P.O. NUMBER, SHIPPED VIA (COMPANY TRUCK), FILE NO. (44004)

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

ORIGINAL

DIRECT CORRESPONDENCE TO: P O BOX 1598 LIBERAL KS 67901

Main invoice table with columns: REFERENCE NO., DESCRIPTION, QUANTITY, U.M., UNIT PRICE, AMOUNT. Includes items like DISCOUNT-(BID), CEMENTING PLUG SW, HALLIBURTON WELD-A-AL FIL, CEMENT - PREMIUM PLUS, MIDCON-2 PREMIUM PLUS CEMENT, ANHYDROUS CALCIUM CHLORIDE, FLOCELE, BULK SERVICE CHARGE, MILEAGE CNTG MAT DEL OR RETURN. Includes handwritten notes: 'RECEIVED STATE CORPORATION COMMISSION NOV 30 1998' and 'CONSERVATION DIVISION Wichita, Kansas'. Subtotal: 14,116.37

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 of 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.

AFFIX JOB TKT

ORDER NO. 10900

PAGE 2

CUSTOMER COPY



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

INVOICE

HALLIBURTON ENERGY SERVICES
A Division of Halliburton Company

INVOICE NO. 234398	DATE 07/18/1998
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WELL LEASE NO./PROJECT SANTA FE C 3	WELL/PROJECT LOCATION MORTON	STATE KS	OWNER SAME
SERVICE LOCATION LIBERAL	CONTRACTOR LIBERAL	JOB PURPOSE SHOWN BELOW	TICKET DATE 07/18/1998
ACCT. NO. 659167	CUSTOMER AGENT JAKE SLATTEN	VENDOR NO. E-26	CUSTOMER P.O. NUMBER LIBERAL
SHIPPED VIA COMPANY TRUCK			FILE NO. 44004

DIRECT CORRESPONDENCE TO:

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

ORIGINAL

P O BOX 1598
LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	AMOUNT
	INVOICE SUBTOTAL				14,116.37
	DISCOUNT-(BID)				5,697.14-
	INVOICE BID AMOUNT				8,419.23
	*-KANSAS STATE SALES TAX				345.28
	*-LIBERAL CITY SALES TAX				70.47
	*-SEWARD COUNTY SALES TAX				105.70
<p>RECEIVED STATE CORPORATION COMMISSION NOV 30 1998 CONSERVATION DIVISION Wichita, Kansas</p>					
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					8,940.68

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 of 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.

AFFIX JOB TRK

ORDER NO. 10900



HALLIBURTON®

HALLIBURTON ENERGY SERVICES

1908-Q

CHARGE TO:
 Oxy U.S.A. INC.
 ADDRESS
 P.O. Box 277
 CITY, STATE, ZIP CODE
 Liberal KS 67905

TICKET

No. 234398 - 1

PAGE 1 OF 2

SERVICE LOCATIONS 1. 025540	WELL/PROJECT NO. 3	LEASE SANTA FE C	COUNTY/PARISH MOGTON	STATE KS	CITY/OFFSHORE LOCATION	DATE 7-18-98	OWNER SAME
2. 025535	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Cheyenne Dale	RIG NAME/NO. #3	SHIPPED VIA HES	DELIVERED TO Location	ORDER NO.
3.	WELL TYPE 02	WELL CATEGORY 01	JOB PURPOSE 010	WELL PERMIT NO.	WELL LOCATION EIKHART KS		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	CORPORATION COMM.		QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
			LOC	ACCT	OF		NO.	NO.						
	000-117		1		41	MILEAGE			110	120	M		3 65	438 00
	000-119		1		41	CREW MILEAGE			110	120	M		2 15	258 00
	000-016		1		41	Pump CHARGE			9	HRS	1274	FT		1630 00
	000-000					PUMP CHARGE			1	HRS	1	ED		788 00
	16A	830-2171	1		32	TEXAS PATT GUIDE SHOE			8 3/8	IN	1	EA		268 00
	24A	815-19502	1		32	INSLET FLOAT					1	EA		207 00
	27	815-19415	1		32	FILL ASSEMBLY					1	EA		81 00
	41	806-61048	1		32	CENTRALIZERS					4	EA	71 40	285 60
	41	806-61048				CENTRALIZERS					4	EA		285 60
	320	806-71460	1		32	CMT BASKET					1	EA		146 00
	030-018		1		41	5 WIPER Top Plug					1	EA		143 00
	350	890-10800	1		32	WELD A			1	lb	1	EA		18 15

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions of the reverse side hereof which include, but are not limited to, PAYMENT, LEASE, OBLIGATIONS, and LIMITED WARRANTY provisions.

DATE SIGNED: 7-18-98
 TIME SIGNED: A.M. P.M.

TYPE LOCK
 BEAN SIZE
 DEPTH
 SPACERS

SUB SURFACE SAFETY VALVE WAS:
 PULLED & RETURN PULLED RUN

TYPE OF EQUALIZING SUB. CASING PRESSURE
 TUBING SIZE TUBING PRESSURE WELL DEPTH
 TREE CONNECTION TYPE VALVE

PAGE TOTAL	3,475 03
FROM CONTINUATION PAGE(S)	10,641 34
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	14,116 37

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) Subekat	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X [Signature]	HALLIBURTON OPERATOR/ENGINEER ROBERT ELWOOD	EMP # D-4360	HALLIBURTON APPROVAL Larry Smith *
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TICKET CONTINUATION

TICKET No. 234398

HALLIBURTON ENERGY SERVICES

CUSTOMER Oxy USA INC

WELL SANTA FE C 3

5:02 PM
7/18/98

PAGE 2 OF 2

Truck# (s) 51984-7763 | 52827-6612

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			DESCRIPTION	QTY U/M		UNIT PRICE	AMOUNT	
		LOG	ACCT	DF		QTY	U/M			
504-050		2		41	Premium Plus	100	sk	\$15.69	\$1,569.00	
504-282		2		41	Premium Plus Midcon	350	sk	\$18.48	\$6,468.00	
509-406		2		41	Calcium Chloride	12	sk	\$46.90	\$562.80	
507-210		2		41	Flocele	200	lb.	\$2.09	\$418.00	
RECEIVED STATE CORPORATION COMMISSION NOV 30 1998 CONSERVATION DIVISION Wichita, Kansas										
ORIGINAL										
500-207		2		41	SERVICE CHARGE	CUBIC FEET	506	1.66	\$839.96	
500-306		2		41	MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES		
						44,776	28	626.864	1.25	\$783.58

No. B 330017

CONTINUATION TOTAL \$ 10,641.34



JOB SUMMARY

ORDER NO. 70006

TICKET # 234398
TICKET DATE 7-18-98

REGION North America	NWA/COUNTRY U.S.A.	BDA / STATE KS	COUNTY MORTON
MBU ID / EMP # MCI10105 D-4360	EMPLOYEE NAME ROBERT ELWOOD	PSL DEPARTMENT 5001	
LOCATION Liberal KS	COMPANY Oxy U.S.A.	CUSTOMER REP / PHONE JAKE SLATEN	
TICKET AMOUNT 14,716.37	WELL TYPE OR	API / UWI # 15129215620000	
WELL LOCATION EILHART KS	DEPARTMENT 5001	JOB PURPOSE CODE 010	
LEASE / WELL # SANTA FE C 3	SEC / TWP / RNG 16-34S-42W		

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 D-4360 8			
S. TATE E 0568 8			
G. HUMPHREYS H9692 8			
C. ASHLEY 44061 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
49001 P.O.	120						
52947-75496	120						
51984-77031	28						
52827-6612	28						

ORIGINAL

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
7-18-98	17:00	19:45	22:25	23:25

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar w/Fill	1	Howco
Float Shoe		
Guide Shoe T ₂ PAT.	1	
Centralizers S-4	4	
Bottom Plug LIME CL	1	
Top Plug S-WIPER	1	
Head MANIFOLD	1	
Packer BRACKET		
Other WREN-A.	1	

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	24	8 5/8	16.8	1274	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole			12 1/4	6.1	1285	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.	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	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				8 5/8 SURFACE
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER
 ORDERED _____ Avail. _____ Used _____
AVERAGE RATES IN BPM
 TREATED _____ Disp. _____ Overall _____
CEMENT LEFT IN PIPE
 FEET 45.60 Reason SHOE JOINT

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GA
	350	Miscocem*	B	3% C.C. , 1/2 PPS FIDCEK	3.22	11.1
	100	Perm Plus	B	2% C.C. , 1/4 FSK FIDCEK	1.32	14.8

Circulating _____	Displacement _____	Prefflush: Gal - BBI _____	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp: BBI - Gal 72.15
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI 200 + 24	
		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 #	234398	TICKET DATE	7-18-98
BDA / STATE	KANSAS	COUNTY	Marion
PSL DEPARTMENT	5001	CUSTOMER REP / PHONE	JANE SLATTEN
API / UWI #	15129215620000	JOB PURPOSE CODE	010

REGION	North America	NW/COUNTRY	U.S.A.
MBU ID / EMP #	MCLT 0105 D-4360	EMPLOYEE NAME	ROBERT ELWOOD
LOCATION	Liberal KANSAS	COMPANY	OK 4 U.S.A.
TICKET AMOUNT	14,116.37	WELL TYPE	02
WELL LOCATION	EIKHDER KS	DEPARTMENT	5001
LEASE / WELL #	SANTA FE C-3	SEC / TWP / RNG	16 34 S. 42 W.

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
P. Elwood D-4360	8						
STATE E0568	8						
G. Humphress H9692	8						
C. Kniev 44061	8						

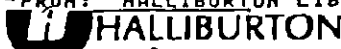
ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1700							Called out Ready 20 00
	1736							Depart Base
	1945							On Loc Rig Logging
	2048							Rig up Cases
	2100							Ed - Start Csg
	2205							Csg on Bottom
	2218							Circ w/ Pig
	2225							Head to HALLIBURTON
	2230	6.6	260			100		START LEAD CNT @ 11.1 #/gal
	2300	4.7	23.5			50		START TAIL CNT @ 14.8 #/gal
	2305					VAC		SHUT DOWN
	2307					VAC		Drop 5 Wiper Top Plug
	2308	5.25	68.15			VAC		START Displacement / WASH Pumps & Lines
	2321	3.3	10			256		Slow Rate
	2324					250		Plug Down
	2324					1000		Release Float Holding
	2325					-0-		Job Complete

RECEIVED
 NOV 3 11 AM '98
 CONSERVATION DIVISION
 Wichita, Kansas

50 BBLs CNT to PET ✓
 86 BLS CNT to PET

THANK YOU FOR CALLING
 HALLIBURTON
 ROBERT & CREW



JOB SUMMARY

TICKET # **384177**

TICKET DATE **7-26-98**

REGION North America	NW/COUNTRY MID CONTINENT	BOA / STATE KS	COUNTY MORTON
MOU ID / EMP # LI 104 62573	EMPLOYEE NAME JOHN WOODROW	PSL DEPARTMENT ZONAL ISOLATION	
LOCATION LIBERAL KS	COMPANY Oxy U.S.A.	CUSTOMER REP / PHONE JAKE SLATTEN	
TICKET AMOUNT \$ 15,836.10	WELL TYPE OI	API / UMW # 15129215620000	
WELL LOCATION N. ELKHART	DEPARTMENT CEMENT	JOB PURPOSE CODE 675 - PLUG BACK LONG STRING	
LEASE / WELL # SANTA FE C #3	SEC / TWP / RNC 16-34S-42W		

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. WOODROW 62573 15	KRUM MITCHELL 9		
S. GRANT 44639 15	J 6774		
T. TRUL 144569 7			
R. FERGUSON 35602 15			

ORIGINAL

HES UNIT NUMBERS	PVT MILES	HES UNIT NUMBERS	PVT MILES	HES UNIT NUMBERS	PVT MILES	HES UNIT NUMBERS	PVT MILES
54218/76900	120	4607	120				
52827/75237	28						
52827/4610	28						

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
	7-26-98	7-26-98	7-26-98	7-28-98
TIME	0400	0715		2130

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar INSERT 5/8	1	H
Float Shoe		
Guide Shoe RBS 5/8	1	G
Centralizers S-41 5/8	10	
Bottom Plug		W
Top Plug S-W 5/8	1	
Head PIC 5/8	1	C
Packer		
Other CABLE SCREWS 4	4	O

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	140	5/2	KB	4378	
Liner						
Liner						
Tbg/D.P.						
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. _____	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 _____	Gal/Lb _____
Perpac Balls _____	Qty. _____	
Other _____		
Other _____		
Other _____		
Other _____		

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

HYDRAULIC HORSEPOWER

Ordered _____ Available _____ Used _____

AVERAGE RATES IN BPM

Treated _____ Displacement _____ Overall _____

CEMENT LEFT IN PIPE

Feet **39.38** Reason **SHOE JOINT**

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	50	PREMIUM	B	1/2 HR-5 FOR PLUG BACK	618	156
	507	PREMIUM 5/8" P&Z	B	1/4" FIBER	322	10.0
	185	PREMIUM	B	1/2 HOUR-9 3RCC, 9A VERSA-SET	142	14.5

Circulating _____	Displacement _____	Pretlush: Gal - BBI _____	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp(BBI) Gal 106
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI 28.5 LC	42.76
		Total Volume Gal - BBI _____	

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

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER REPRESENTATIVE SIGNATURE



JOB LOG

ORDER NO 7006

TICKET # 314177

TICKET DATE 7-26-98

REGION North America	NW/COUNTRY Mid CONTINENT	BDA/STATE KS	COUNTY
WELL ID / EMP # L1104 62573	EMPLOYEE NAME JOHN WOODROW	PSL DEPARTMENT ZONAL ISOLATION	
LOCATION LIBERAL KS	COMPANY OXY U.S.A	CUSTOMER REP / PHONE MARK SLATTEN	
TICKET AMOUNT 11,456.10	WELL TYPE OI	API / UMI # 121-215-2-0000	
WELL LOCATION N. FLORIAN	DEPARTMENT CEMENT	JOB PURPOSE CODE 675 PLUG BACK LONG STRINGS	
LEASE / WELL # SANTA FE C #3	SEC / TWP / RANG 16:34S-42W		

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
WOODROW 62573 15	KEVIN MACNEIL 5		
GRANT 114637 15	J. T. J.		
T. F. J. 114569 7			
F. F. J. 114562 5			

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESS. (PSI)		JOB DESCRIPTION / REMARKS
				T	C	TD	CD	
	0600							JOB READY
	0700							CALLED OUT FOR JOB
	0715							PUMP TRUCK + BULK CMT ON LOCATION / HAVE PRE-JOB SITE ASSESSMENT MEETING / SPOT EQUIPMENT
	0730							RIG TRIPPING OUT D.P. LAY DOWN DRILL COLLARS / TAKE B.O.P OFF
	0830							TRIP BACK IN HOLE WITH 4596' OF D.P. HOOK UP KELLY + CIRCULATE THROUGH CIRCULATING / HOOK UP TO PUMP TRUCK
	1305	5.0	10	✓		700		JOB PROCEDURE PLUG BACK PUMP 10 BBL FRESH WATER MIX
	1308	5.0	10.5	✓		150		MIX 50 SKS CMT AT 15.6' HOLE
	1312	4.0	3.5	✓		130		PUMP 3.5 BBL WATER BEHIND
	1315	6.0	59	✓		100		DISPLACE WITH 59 BBL MUD
	1330					0		SHUT DOWN / CHECK LOOSE / LAY DOWN 4 JTS
	1400							HOOK UP KELLY + CIRCULATE HOLE
	1600							START LAYING DOWN DRILL PIPE D.P. LAYED DOWN / LAY DOWN R.H. + M.H.
	1700							START RUNNING 5 1/2" CSC + FIT EQUIPMENT CASING ON BOTTOM 4373'
	1845							HOOK UP 5 1/2" PLG + CIRCULATING IRON
	1905							START CIRCULATING WITH RIG PUMP THROUGH CIRCULATING / HOOK UP TO PUMP TRUCK PLUG P.H. + M.H. WITH 25.5 SKS CMT
	2033	4.5	5	✓		9114		JOB PROCEDURE PUMP 5 BBL FRESH WATER
	2036	4.2	10	✓		117		PUMP 10 BBL 100 CG WATER
	2039	4.5	5	✓		120		PUMP 5 BBL 30" GEL WATER
	2040	4.5	10	✓		91		PUMP 10 BBL 100 CG WATER
	2043	4.5	10	✓		132		PUMP 10 BBL 30" GEL WATER
	2045	4.5	10	✓		185		PUMP 10 BBL SUPER FLUSH
	2047	4.5	5	✓		165		PUMP 5 BBL FRESH WATER SPACER
	2049	6.3	28	✓		198		MIX 50 SKS LEAD CMT AT 10' HOLE
	2054	7.4	46	✓		98		MIX 160 SKS TAIL CMT AT 14.5' HOLE
	2109					0		THROUGH MIXING CMT / SHUT DOWN WASH OUT PUMP LINES RELEASE PLUG
	2109							START DISPLACING / POST RETURNS
	2130		107.0	✓				100 MAX LIFT PSI BEFORE LANDING PLUG PLUG DOWN / RELEASE PLUG / PLUG HELD GOT RETURNS BACK WITH 50 BBL DISP

CONSERVATION DIVISION
 Wichita, Kansas
 STATE CORPORATION COMMISSION
 WICHITA, KANSAS