

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

Operator: License # 4742  
Name: Texaco E&P, Inc.  
Address P. O. Box 2700  
Pampa, Texas 79066-2700  
City/State/Zip \_\_\_\_\_

Purchaser: \_\_\_\_\_  
Operator Contact Person: J. M. Barnum

Phone (806) 665-1876

Contractor: Name: H-40  
License: 30692

Wellsite Geologist: John Connor

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: \_\_\_\_\_

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

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

8-8-92 8-15-92 8-31-92  
Spud Date Date Reached TD Completion Date

API NO. 15- 175-21261 0000

County Seward

SW NW NW Sec. 14 Twp. 31S Rge. 32 X E

990 Feet from S(N) (circle one) Line of Section

990 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 F. Richardson Well # 1

Field Name 31 SW

Producing Formation Morrow

Elevation: Ground 2845 KB 2857

Total Depth 5800 PBSD 5758

Amount of Surface Pipe Set and Cemented at 1634 Feet

Multiple Stage Cementing Collar Used? XX Yes  No

If yes, show depth set 3119 Feet

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

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

Drilling Fluid Management Plan ALT 1 RD 10-13-92  
(Data must be collected from the Reserve Pit)

Chloride content 10,000 ppm Fluid volume \_\_\_\_\_ bbls

Dewatering method used Evaporation

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

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

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

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well reports 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.

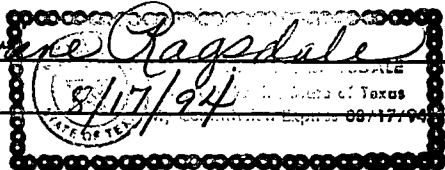
Signature [Signature]

Title Area Coordinator Date Sept 2 1992

Subscribed and sworn to before me this 2<sup>ND</sup> day of September, 1992.

Notary Public [Signature]

Date Commission Expires 09/17/94



RECEIVED 9-8-92  
STATE CORPORATION COMMISSION  
K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
DISTRIBUTION  
Wichita, Kansas  
KCC \_\_\_\_\_ SWD/Rep \_\_\_\_\_  
KGS \_\_\_\_\_ Plug \_\_\_\_\_  
Other \_\_\_\_\_  
(Specify)

Operator Name Texaco E&P, Inc. Lease Name F. Richardson Well # 1  
 Sec. 14 Twp. 31S Rge. 32 County Seward  
 East  
 West

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

Drill Stem Tests Taken (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input 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	See Attachment		
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

List All E.Logs Run:

Compensated Neutron  
 Dual Induction - SFL  
 Microlog

Dipmeter

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12,250	8-5/8"	24#	1634	460 Sls Cement	1422 2800#	See Attachment
Production	7,875	5-1/2"	15.5#	5800	See Attachment		

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
4	5462-74', 5449-52'	Frac with 19,162 gals. 65Q CO2 Foam, 2000# 100 mesh sand, 24,800# 20/40 sand	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-7/8"		5325'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		2,000			

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

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  
 Other (Specify) \_\_\_\_\_

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

F. RICHARDSON #1  
API #15-175-21,261  
SW/NW/NW Sec. 14-T31S-R32W  
SEWARD CO. KANSAS

SURFACE CASING CEMENT: HALLIBURTON INVOICE #216867

LEAD 460 SKS. PREM. LITE, W/2% CCL.

TAIL 150 SKS. PREM. PLUS, W/2% CCL. AND  
1/4#/SX. FLOCELE CEMENT CIRC. TO SURFACE.

PRODUCTION CASING CEMENT: HALLIBURTON INVOICE #250709

STAGE #1 130 SKS. 50/50 POZ, 10#/SX GILSONITE,  
1/4#/SX. FLOCELE.

STAGE #2 325 SKS. CLASS C 6/10% HALAD 322, 2% CCL.,  
1/4#/SX. FLOCELE.

FORMATION DESCRIPTION

Wellington	2122	Heebner	4179
Hutchinson	2222	Toronto	4194
Hollenberg	2614	Lansing	4289
U. Krider	2640	Marmaton	4903
L. Krider	2666	Cherokee	5073
Winfield	2712	Atoka	5192
Towanda	2759	Morrow	5370
Wreford	2919	Chester	5531
Council Grove	3010	St. Gen	5620
		St. Louis	5708

RECEIVED  
STATE CORPORATION COMMISSION

SEP 8 1992

CONSERVATION DIVISION  
Wichita, Kansas

A Division of Halliburton Company

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME #1 S. J. Nickerson Trust		COUNTY Seward	STATE Ks.	CITY / OFFSHORE LOCATION	DATE 8-16-92
CHARGE TO H-40 Dely Co.		OWNER T&E	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		MITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR R. #1	1 LOCATION Liberal Ks.	CODE 25510	
CITY, STATE, ZIP		SHIPPED VIA Howe	2 LOCATION Horton Ks.	CODE 25535	
WELL TYPE DU	WELL CATEGORY 01	WELL PERMIT NO.	3 LOCATION	CODE	
TYPE AND PURPOSE OF JOB 0355		B-969578	ORDER NO.	REFERRAL LOCATION	

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state whose services are performed or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
200-117		1		MILEAGE	1	MI	35	MI	2.60	91.00
07-013		1		Pump Charge	1	Unit	5811	ft		1525.00
24	93707100	1		Fluorocarbon SSIT	1	FR	5 1/2	IN		225.00
46	90792000	1		CENTRAL CAR 3-4	15				44.00	660.00
66	901.6431	1		FAC GRIDS	1					11.30
71	915.70300	1		DU Combining Tool	1					2450.00
75	813.16510	1		Plug Set	1					460.00
200	901.7113	1		CAT BASKET	1					90.00
271	901.5745	1		Catch Down Bottle	1					114.00
275	910.4475	1		Catch Down Hody	1					345.00
278-215		1		FRUIT FLUOR	2000	Gal	FRUITAL		.60	600.00
207-111		1		STAGE 1	1	Unit	2nd Stage			1025.00

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B-969578

WAS JOB SATISFACTORILY COMPLETED? \_\_\_\_\_

WAS OPERATION OF EQUIPMENT SATISFACTORY? \_\_\_\_\_

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? \_\_\_\_\_

X \_\_\_\_\_  
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X \_\_\_\_\_  
CUSTOMER OR HIS AGENT (SIGNATURE)

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

HALLIBURTON APPROVAL

HALLIBURTON OPERATOR

CUSTOMER

RECEIVED  
STATE CORPORATION COMMISSION  
SFD  
CONSERVATION DIVISION  
Wichita, Kansas

SUB TOTAL

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

13754.72

# AND TICKET CONTINUATION

FOR INVOICE AND  
TICKET NO. 250709

DATE <b>08-16-92</b>	CUSTOMER ORDER NO.	WELL NO. AND FARM <b>Richardson Trustee #1</b>	COUNTY <b>Seward</b>	STATE <b>Kansas</b>
CHARGE TO <b>Texaco</b>	OWNER <b>Same</b>	CONTRACTOR <b>H-40</b>		No. <b>B 969578</b>
MAILING ADDRESS	DELIVERED FROM <b>Hugoton, Ka</b>	LOCATION CODE <b>025535</b>	PREPARED BY <b>Mike Gilbert</b>	
CITY & STATE	DELIVERED TO <b>NE/ Liberal, Ks</b>	TRUCK NO.	RECEIVED BY <i>McAfee</i>	

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
				<b>130 sks 50/50 Pozmix</b>							
504043	516.00272	2	B	<b>Premium Cement</b>	<b>165</b>	<b>sk</b>			<b>7.94</b>	<b>516</b>	<b>10</b>
506-105	516.00286	2	B	<b>Pozmix "A"</b>	<b>4810</b>	<b>lb</b>			<b>.06</b>	<b>288</b>	<b>60</b>
506-121	516.00259	2	B	<b>Halliburton Gel 2%</b>	<b>2</b>	<b>sk</b>				<b>N/C</b>	
507-210	890.50071	2	B	<b>Flocele 1/2W/ 130 &amp; 325</b>	<b>114</b>	<b>lb</b>			<b>1.30</b>	<b>148</b>	<b>20</b>
507-970	70.15764	2	B	<b>D-Air #1 .2ZW/ 130</b>	<b>22</b>	<b>lb</b>			<b>2.95</b>	<b>64</b>	<b>90</b>
508-291	516.00337	2	B	<b>Gilsonite 10W/ 130</b>	<b>1300</b>	<b>lb</b>			<b>.35</b>	<b>455</b>	<b>00</b>
509-968	516.00315	2	B	<b>Granulated Salt 10ZW/ 130</b>	<b>640</b>	<b>lb</b>			<b>.10</b>	<b>64</b>	<b>00</b>
504-050	516.00265	2	B	<b>Premium Plus Cement</b>	<b>325</b>	<b>sk</b>			<b>8.19</b>	<b>2661</b>	<b>75</b>
507-775	516.00144	2	B	<b>Halad-322 .6ZW/ 325</b>	<b>183</b>	<b>lb</b>			<b>6.30</b>	<b>1152</b>	<b>90</b>
509-406	890.50812	2	B	<b>Calcium Chloride 2ZW/ 325</b>	<b>6</b>	<b>sk</b>			<b>26.50</b>	<b>159</b>	<b>00</b>

THIS IS NOT AN INVOICE

			Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES		
			SERVICE CHARGE ON MATERIALS RETURNED				CU. FEET	
500-207		2	B	SERVICE CHARGE			CU. FEET 510	
500-306		2	B	Mileage Charge 44,442 TOTAL WEIGHT	15 LOADED MILES	333.315 TON MILES	CU. FEET .80	
No. <b>B 969578</b>		CARRY FORWARD TO INVOICE				SUB-TOTAL		<b>6363</b> / <b>60</b>

RECEIVED  
STATE CORPORATION COMMISSION  
SEP 8 1992  
CONSERVATION DIVISION  
Wichita, Kansas

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO. 250709

FORM 1908 R-7

A Division of Halliburton Company

DISTRICT 1 Leavelle Ks.

DATE 8-16-92

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: H-40 Dwy (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. #1 LEASE Richardson Trust Ks. SEC. TWP. RANGE

FIELD COUNTY SEWARD STATE Ks. OWNED BY TEXACO

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

Table with columns: FORMATION NAME, TYPE, THICKNESS, FROM, TO, FACER TYPE, SET AT, TOTAL DEPTH, MUD WEIGHT, BORE HOLE, INITIAL PROD, OIL, BPD, H2O, BPD, GAS, MCF, PRESENT PROD, OIL, BPD, H2O, BPD, GAS, MCF. Includes a detailed table for CASING, LINER, TUBING, OPEN HOLE, and PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED. I have read and understand this contract and represent that I am authorized to sign the same as customer's agent. Includes sections on indemnification, warranties, and legal jurisdiction.

SIGNED DATE 8-16-92 TIME A.M. P.M. CUSTOMER

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

SEP 8 1992 CONSERVATION DIVISION

# JOB LOG

WELL NO. \_\_\_\_\_ LEASE MICHIGAN INDUSTRIAL TICKET NO. 260807

CUSTOMER H-40 DRLG Co. (TEXACO) PAGE NO. \_\_\_\_\_

JOB TYPE 5 1/2 D.U. DATE 8-16-92

ORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	06:30							CALL
	07:00							LOCATION
	10:00							START CSQ
	11:30							D.U. TOOL SET @ 3118 FT
	13:00							CSQ IN. Hookup Head Circulate (Rig)
	13:30							Hook To Cmt Line
	13:34	6			1		250	START JOB w/ mud FLUSH
	13:36	8	500	WAL	2		500	Pump 130 sks cmt mix @ 13.6% GAL
	13:40	0	32	WAL	0		0	SHUT DOWN, DEEP CATCH DOWN PLUG & WASH UP
	13:45	8			2		250	DISPLACE w/ H <sub>2</sub> O
	13:55	6	60	H <sub>2</sub> O	2		300	DISPLACE w/ mud
	14:05	2	65	MUD	1		600	SLOW RATE
	14:08	0	75	MUD	0		1100	PLUG DOWN
	14:14						0	CHECK FLOAT & BRLE -
	14:15							DEEP OPENING TOOL - WAIT
	14:30	2			1		0	PUMP TO OPEN D.U. CEMENTAIR
	14:36	0	10		0		0	SHUT DOWN - WAIT FOR 2 <sup>ND</sup> STAGE
	18:10							Hook To Cmt Line
	18:13	6			2		300	START 2 <sup>ND</sup> STAGE w/ mud FLUSH
	18:15	8	500	WAL	2		250	Pump 325 sks cmt mix @ 14.8% GAL
	18:25	0	77	WAL	0		0	SHUT DOWN, DEEP CATCH DOWN PLUG & WASH UP
	18:30	6			2		250	DISPLACE w/ H <sub>2</sub> O
	18:40	2	62	H <sub>2</sub> O	1		100	SLOW RATE
	18:45		72	H <sub>2</sub> O	0		120	PLUG DOWN
	19:20							CHECK D.U. TOOL
								TRK'S RELEASED

Thank you for calling Harold  
*Jeff C. [Signature]*  
 RECEIVED STATE CORPORATION COMMISSION  
 A 1992  
 CONSERVATION DIVISION  
 Michigan  
 MEMBERS

WELL DATA

SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RNG. \_\_\_\_\_ COUNTY Seward STATE Ks.

WELL NAME \_\_\_\_\_ TYPE \_\_\_\_\_

FORMATION THICKNESS FROM \_\_\_\_\_ TO \_\_\_\_\_

WELL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_

VENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_

COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_

WELL TYPE \_\_\_\_\_ SET AT \_\_\_\_\_

FORMATION TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

DATE \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	NEW	17	5 1/2	K-13	5211	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 8-16-96	DATE -	DATE -	DATE 8-16-96
TIME 06:30	TIME 09:00	TIME 10:00	TIME 17:30

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
J. McAlister	40048	Liberal Ks.
R. Taylor	52825	" "
D. McIntyre	75374	" "
C. Gray	3603	Liberal Ks.
	7644	" "
	4673	" "
	6610	" "

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
WHEELBARROW	1	Handco
SHOE	1	
WIRELINE	1	
TRAILERS	1	
PLUG	1	
DU TOOL	1	
FF	1	
1/2" L. Down Baffle	1	
1/2" L. Down Plug	1	

MATERIALS

WELL FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL API

ANNULUS FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL API

1. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

2. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

3. TYPE \_\_\_\_\_ GAL \_\_\_\_\_ %

4. TYPE \_\_\_\_\_ GAL \_\_\_\_\_ %

5. TYPE \_\_\_\_\_ GAL \_\_\_\_\_ %

6. TYPE \_\_\_\_\_ GAL \_\_\_\_\_ %

7. FACTANT TYPE \_\_\_\_\_ GAL \_\_\_\_\_ IN.

8. AGENT TYPE \_\_\_\_\_ GAL \_\_\_\_\_ IN.

9. LOSS ADD. TYPE \_\_\_\_\_ GAL-LB. \_\_\_\_\_ IN.

10. LING AGENT TYPE \_\_\_\_\_ GAL-LB. \_\_\_\_\_ IN.

11. RED. AGENT TYPE \_\_\_\_\_ GAL-LB. \_\_\_\_\_ IN.

12. WAKER TYPE \_\_\_\_\_ GAL-LB. \_\_\_\_\_ IN.

13. KING AGENT TYPE \_\_\_\_\_ GAL-LB. \_\_\_\_\_

14. PAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

15. BR \_\_\_\_\_ MUDFLOW 10000 GAL

DEPARTMENT \_\_\_\_\_

DESCRIPTION OF JOB \_\_\_\_\_ 5/2 DU

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE J. Gray

HALLIBURTON OPERATOR L. Webb COPIES REQUESTED \_\_\_\_\_

CEMENT DATA

SLUG	NUMBER OF BAGS	CEMENT	BRAND	BULK BAGGED	ADDITIVES	YIELD CU.FT./BK.	MIXED LBS/GAL.
1	130	3500 Return/Port	B		10% salt, 10% G.L. Lignite, 2% DART 4/100	1.38	15.4
2	325	FRACURE Plus	B		6% Haled. 522, 2% CC, 4% 1/2" 510	1.32	14.4

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESURUSHI BBL-GAL \_\_\_\_\_ TYPE \_\_\_\_\_

SHUT-IN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL-GAL \_\_\_\_\_ PAD: BBL-GAL \_\_\_\_\_

FRACURE GRADIENT \_\_\_\_\_ TREATMENT: BBL-GAL \_\_\_\_\_ DISPL. BBL-GAL \_\_\_\_\_

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

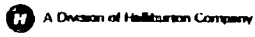
HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME (BBL-GAL) \_\_\_\_\_ 333

REMARKS \_\_\_\_\_

REASON \_\_\_\_\_

RECEIVED  
STATE CORPORATION  
SEP 8 1996  
CONSERVATION DIVISION  
Wichita, Kansas





FORM 1906 R-11

WELL NO - FARM OR LEASE NAME <i>L.J. Richardson Trust</i>		COUNTY <i>SEWARD</i>	STATE <i>KS</i>	CITY / OFFSHORE LOCATION	DATE <i>8-9-92</i>
CHARGE TO <i>H-40 Drilling Inc</i>		OWNER <i>TEXACO Inc.</i>	TICKET TYPE (CHECK ONE) SERVICE <input type="checkbox"/> SALES <input type="checkbox"/>		MITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR	LOCATION <i>1 Liberal KS 025590</i>		CODE
CITY, STATE, ZIP		SHIPPED VIA <i>Howco</i>	FREIGHT CHARGES <input type="checkbox"/> FPD <input type="checkbox"/> COLLECT		LOCATION <i>2 Hugoton, KS 02553</i>
WELL TYPE <i>01</i>	WELL CATEGORY <i>01</i>	WELL PERMIT NO.	DELIVERED TO <i>Location</i>		LOCATION <i>3</i>
TYPE AND PURPOSE OF JOB <i>B-</i>		ORDER NO.	REFERRAL LOCATION		

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether of contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
<i>200 117</i>				MILEAGE	<i>15</i>	<i>mi</i>	<i>1</i>	<i>EA</i>	<i>260</i>	<i>39 00</i>
<i>200 016</i>				Pump charge	<i>1624</i>	<i>FT</i>				<i>1020 00</i>
<i>030 016</i>				5-WIPER Pledge TOP	<i>1</i>	<i>EA</i>	<i>8 5/8</i>	<i>IN</i>		<i>130 00</i>
<i>40</i>	<i>807.93059</i>			Centralizer S-Y	<i>3</i>	<i>EA</i>	<i>8 5/8</i>	<i>IN</i>	<i>62.00</i>	<i>186 00</i>
<i>27</i>	<i>815.19415</i>			FILL UP	<i>1</i>	<i>EA</i>	<i>"</i>	<i>"</i>		<i>30 00</i>
<i>24A</i>	<i>815.19502</i>			INSERT	<i>1</i>	<i>EA</i>	<i>"</i>	<i>"</i>		<i>171 00</i>

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B- 909552**

WAS JOB SATISFACTORILY COMPLETED?  
 WAS OPERATION OF EQUIPMENT SATISFACTORY?  
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY?  
 *John Schenz*  
 CUSTOMER OR HIS AGENT (PLEASE PRINT)  
 *John Schenz*

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

*WAG*  
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL *Corey L. Schenz - 4524*

STATE CORPORATION RECEIVED  
 62000  
 7782  
 7/16/92  
 CONSERVATION  
 APPLICABLE TAXES WILL BE ADDED ON INVOICE.

**AND  
 TICKET CONTINUATION**

FOR INVOICE AND  
 TICKET NO. 216867

DATE 8-9-92	CUSTOMER ORDER NO.	WELL NO. AND FARM J. Richardson Trustee #1	COUNTY Seward	STATE Kansas
CHARGE TO H-40		OWNER Texaco	CONTRACTOR H-40	No. <b>B 969552</b>
MAILING ADDRESS		DELIVERED FROM Hugoton, Kansas	LOCATION CODE 025535	PREPARED BY Don Phillips
CITY & STATE		DELIVERED TO N/E Liberal, Kansas	TRUCK NO.	RECEIVED BY <i>WAG</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT																									
		L	D		QTY.	MEAS.	QTY.	MEAS.																											
504-050	516.00265	2	B	Premium Plus Cement	150	sk			8.19	1,228	50																								
504-120		2	B	Halliburton Light Cement	460	sk			7.40	3,404	00																								
507-210	890.50071	2	B	Flocele B/ $\frac{1}{2}$ " W/ 610	153	lb			1.30	198	90																								
509-406	890.50812	2	B	Calcium Chloride B/ 2% W/ 610	11	sk			26.50	291	50																								
<table border="1"> <tr> <td>Returned Mileage Charge</td> <td>TOTAL WEIGHT</td> <td>LOADED MILES</td> <td>TON MILES</td> </tr> <tr> <td>SERVICE CHARGE ON MATERIALS RETURNED</td> <td></td> <td></td> <td>CU. FEET</td> </tr> <tr> <td>500-207</td> <td>2 B SERVICE CHARGE</td> <td></td> <td>CU. FEET 642</td> </tr> <tr> <td>500-306</td> <td>2 B Mileage Charge</td> <td>57,554# TOTAL WEIGHT</td> <td>15 LOADED MILES</td> </tr> <tr> <td></td> <td></td> <td></td> <td>431.655 TON MILES</td> </tr> <tr> <td></td> <td></td> <td></td> <td>.80</td> </tr> </table>												Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES	SERVICE CHARGE ON MATERIALS RETURNED			CU. FEET	500-207	2 B SERVICE CHARGE		CU. FEET 642	500-306	2 B Mileage Charge	57,554# TOTAL WEIGHT	15 LOADED MILES				431.655 TON MILES				.80
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No. <b>B 969552</b>										CARRY FORWARD TO INVOICE		SUB-TOTAL																							
										6206		52																							

STATE CORPORATION COMMISSION  
 RECEIVED  
 SEP 8 1992  
 INSULATION DIVISION  
 Wichita, Kansas  
 345

WORK ORDER CONTRACT  
 AND PRE-TREATMENT DATA

ATTACH TO  
 INVOICE & TICKET NO. 21630

FORM 1908 R-7

A Division of Halliburton Company

DISTRICT LIBERAL

DATE 3-2-22

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE  
 THE SAME AS AN INDEPENDENT CONTRACTOR TO: H-40 DRILLING INC (CUSTOMER)  
 AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE J. Richardson Trust SEC. 14 TWP. 31 RANGE 32

FIELD \_\_\_\_\_ COUNTY SEWARD STATE KS OWNED BY \_\_\_\_\_

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
 FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
 PACKER: TYPE \_\_\_\_\_ SET AT \_\_\_\_\_  
 TOTAL DEPTH 1624 MUD WEIGHT \_\_\_\_\_  
 BORE HOLE \_\_\_\_\_  
 INITIAL PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF \_\_\_\_\_  
 PRESENT PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	N	24	8 5/8	46	1624	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE \_\_\_\_\_ TYPE \_\_\_\_\_ MATERIALS \_\_\_\_\_

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HORSEPOWER ORDERED   
Cement 35/8 SURFACE CASING w/460 sks HLC - C CEMENT 12.3 #/gal 2.1 FT<sup>3</sup>/SK  
150 sks C CEMENT 14.8 #/gal 1.32 FT<sup>3</sup>/SK  
1/4" Flocc & 230 cc. THRU ALL CEMENT

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice upon Customer's default, payment of Customer's account by the last day of the month following the month in which the invoice is dated. Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
  - To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
    - Damage to property owned by, in the possession of, or leased by Customer and/or the well owner (if different from Customer) including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
    - Reservoir formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
    - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well, or any damages whatsoever growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material).
 The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section (b) and Section (c) above, shall apply to claims or liability, even if caused or contributed to by Halliburton negligence, strict liability, or the unseaworthiness of any vessel owned, operated or furnished by Halliburton or any defect in the date, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections (b) and (c) shall mean Halliburton, its division and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
  - To release 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 product and/or material, nor the results of any treatment or service, nor the accuracy of any chart, interpretation, or search analysis, or recommendation of any data furnished by Halliburton. Customer shall be responsible for the efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damage arising from the use of such information.
  - That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability, and Customer's exclusive remedy in all cases of such warranty in contract, tort, breach of warranty or otherwise arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials, or the return to Halliburton or at Halliburton's option to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for any consequential indirect, punitive, or consequential damages.
  - That Halliburton shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of the replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments which are returned undamaged, Customer shall be deemed to be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery of such equipment, tools or instruments to the landing unless such loss or damage is caused by the sole negligence of Halliburton.
  - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
  - That this contract shall be governed by the law of the state where services are performed or materials are furnished.
  - That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT  
 SIGNED John Schlegel CUSTOMER  
 DATE \_\_\_\_\_

RECEIVED  
 STATE CORPORATION COMMISSION  
 SEP 8 1992  
 CONSUMER PROTECTION DIVISION

WELL DATA

FIELD \_\_\_\_\_ SEC. 14 TWP. 31 RNG. 32 COUNTY Seward STATE Ks

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_

FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

INITIAL PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_

PRESENT PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_

COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_

PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-9</u>	DATE <u>8-7</u>	DATE _____	DATE _____
TIME <u>0300</u>	TIME <u>0500</u>	TIME _____	TIME _____

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
EL. SHOES <u>INSERT w/ fill up</u>	<u>1 SA</u>	<u>Howco</u>
GUIDE SHOE		
CENTRALIZERS <u>5-4 8 5/8</u>	<u>3</u>	<u>Howco</u>
BOTTOM PLUG		
TOP PLUG <u>5-W 8 5/8</u>	<u>1</u>	<u>Howco</u>
HEAD		
PACKER		
OTHER		

MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. API \_\_\_\_\_

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. API \_\_\_\_\_

ROP TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB. \_\_\_\_\_

ROP TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB. \_\_\_\_\_

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ % \_\_\_\_\_

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ % \_\_\_\_\_

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ % \_\_\_\_\_

SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN \_\_\_\_\_

SEALING AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN \_\_\_\_\_

FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_

CELLULOSIC AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_

THICKENING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_

WEAKNER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_

LOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_

ERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>WAGENSEN</u>	<u>40077</u>	<u>Liberal</u>
<u>B. Saubert</u>	<u>64781</u>	<u>" "</u>
<u>D. Burrows</u>	<u>F1012</u>	<u>5302</u>
<u>D. PIRREE</u>	<u>B7106</u>	<u>75505</u>

DEPARTMENT CEMENT

DESCRIPTION OF JOB Cement surface casing

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE X John Schlegel

HALLIBURTON OPERATOR WAG COPIES REQUESTED \_\_\_\_\_

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>460</u>	<u>HLC Premium</u>	<u>C</u>	<u>B</u>	<u>1/4" Floccul</u> <u>2% CC</u>	<u>2.1</u>	<u>12.3</u>
<u>2</u>	<u>150</u>	<u>C Premium</u>	<u>C</u>	<u>B</u>	<u>1/4" Floccul</u> <u>2% CC</u>	<u>1.32</u>	<u>14.8</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

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

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

CRACK \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. \_\_\_\_\_

SHUT-IN INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 202.3

HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. 308.9

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

AVERAGE RATES IN BPM

CIRCUITING \_\_\_\_\_ DISPL. 6 OVERALL 6

CEMENT LEFT IN PIPE

REASON Shoe Joint

RECEIVED  
STATE COMMISSION  
SEP 10 10:16 AM 1992  
CONSERVATION DIVISION  
WINTER, KANSAS

CUSTOMER H-90 Drilling Inc  
LEASEE T. Richardson Trust  
WELL NO. 1  
JOB TYPE Surface

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							ON LOCATION
	0715							start out of hole w/ drill pipe
	0850							start casing in hole
								insert in #1 collar
								centralizers above #1 collar
								on #3 + 5 collars
	0945							hook up head to circulate
	0955							start circulating w/ rig
	1005							hook up to pump cement
	1012	7.4	172			100		start pumping lead cement
	1035	5.8	35.3			50		start pumping tail cement
	1041							drop plug
	1042	6	90			0		start displacing
	1052					300		getting cement returns (SS 631 gone)
	1057	1.5	11.6			450		slow rate
	1105					800		landed plug
	1106					0		release pressure float holding
								circulated 46 bbl cement to pit
								123 sks
								pumped
								460 sk Premium Lite w/ 1/4" flocc 1c
								2% CC
								2.1 ft <sup>3</sup> /sk 12-3 #/gal
								150 sk Premium Plus w/ 1/4" flocc 1c
								2% C.C.
								1.32 ft <sup>3</sup> /sk 14.8 #/gal

RECEIVED  
STATE CORPORATION COMMISSION  
SEP 27 1972  
INSURANCE DIVISION

Thanks For Calling Halliburton  
WAL + CREW



DOWELL SCHLUMBERGER

API WATER ANALYSIS REPORT \*

Customer: TEXACO Date: 8-21-92

Co. Rep.: Steve Hancock Phone: \_\_\_\_\_

Well Name: F. Richardson #1 Formation: \_\_\_\_\_

Field: (Reserve Pit)

WATER PROPERTIES:

pH: \_\_\_\_\_

Specific Gravity: \_\_\_\_\_

Resistivity: \_\_\_\_\_ ohm-meters

Temperature: \_\_\_\_\_ °F

DISSOLVED SOLIDS:

CATIONS:

Sodium, Na: \_\_\_\_\_ mg/l

Calcium, Ca: \_\_\_\_\_ mg/l

Magnesium, Mg: \_\_\_\_\_ mg/l

Barium, Ba: \_\_\_\_\_ mg/l

ANIONS:

Chloride, Cl: 10,000 mg/l

Sulfate, SO<sub>4</sub>: \_\_\_\_\_ mg/l

Carbonate, CO<sub>3</sub>: \_\_\_\_\_ mg/l

Bicarbonate, HCO<sub>3</sub>: \_\_\_\_\_ mg/l

Total Dissolved Solids: \_\_\_\_\_ mg/l

Iron, Fe: \_\_\_\_\_ mg/l

Sulfide, as H<sub>2</sub>S: \_\_\_\_\_ mg/l

Tannin & Lignins: \_\_\_\_\_ mg/l

COMMENTS:

Tested By: John Bryant