

# ORIGINAL

SIDE ONE

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

Operator: License # 7775  
Name: WILTON PETROLEUM, INC.  
Address 901 King Ave.  
Nyssa, OR 97913  
City/State/Zip \_\_\_\_\_  
Purchaser: Texaco  
Operator Contact Person: Carl Calem  
Phone (316) 947-3254

Contractor: Name: ALLEN DRILLING COMPANY  
License: 5418  
Wellsite Geologist: Jim Musgrove STATE CORPORATION COMMISSION

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  Temp. Abd.  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply, etc.)

If OMAO: old well info as follows:  
Operator: N/A  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
4/27/91 5/02/91 6-8-91  
Spud Date Date Reached TD Completion Date

API NO. 15- 185-22,767

County Stafford

SW NW NW Sec. 17 Twp. 21S Rge. 13  East West

4290 Ft. North from Southeast Corner of Section

4950 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

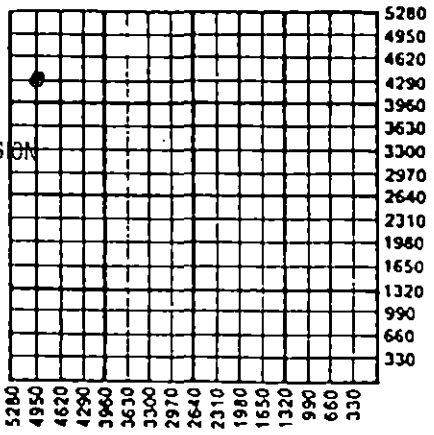
Lease Name HARMS Well # 3

Field Name HAZZI West

Producing Formation LANSING K.C. Simp. SAND.

Elevation: Ground 1924 KB 1929

Total Depth 3766 PBDT 3684



*AITI*

Amount of Surface Pipe Set and Cemented at 337 Feet

Multiple Stage Cementing Collar Used? Yes  No

If yes, show depth set \_\_\_\_\_ Feet

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

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

**INSTRUCTIONS:** This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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.

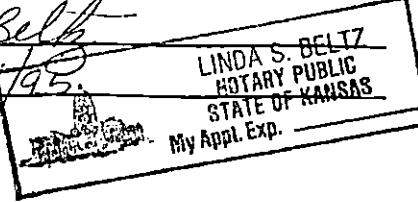
Signature Linda S. Beltz

Title Notary Date 7-30-91

Subscribed and sworn to before me this 10<sup>th</sup> day of August, 19 91.

Notary Public Linda S. Beltz

Date Commission Expires 6/29/95



**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)

*P1*

SIDE TWO

Operator Name WILTON PETROLEUM, INC. Lease Name HARMS Well # 3  
 Sec. 17 Twp. 21 Rge. 13  East  West  
 County Stafford

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Formation Description  <input type="checkbox"/> Log <input type="checkbox"/> Sample															
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
		<table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr> <td>LANSING</td> <td>3356'</td> <td>3560'</td> </tr> <tr> <td>Viola</td> <td>3585'</td> <td>3586'</td> </tr> <tr> <td>SIMPSON</td> <td>3623'</td> <td>3626'</td> </tr> <tr> <td>Arbuckle</td> <td>3627'</td> <td>3766'</td> </tr> </tbody> </table>	Name	Top	Bottom	LANSING	3356'	3560'	Viola	3585'	3586'	SIMPSON	3623'	3626'	Arbuckle	3627'	3766'
Name	Top	Bottom															
LANSING	3356'	3560'															
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SIMPSON	3623'	3626'															
Arbuckle	3627'	3766'															

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
surface	12-1/4	8-5/8"		337	40/60poz	175/50	3%cc 2%gel
production	7-7/8	5-1/2"	14	3763	40/60poz	175	10% salt 5#gilsonite

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
2	3688' to 3692'	Cement Squeeze	
2	3671' to 3673'	50 SACKS COMMEN	3684'
2	3513 to 3517' & 3493-3496 3424 to 3428'	500 gal Acid (15% MA) FRAC, 2000# 24-40 SAND 1500 gal (15% MA)	

TUBING RECORD	Size <u>2 7/8</u>	Set At <u>3661'</u>	Packer At <u>NONE</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First Production <u>6-14-91</u>	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil Bbls. <u>15</u> Gas Mcf <u>NONE</u> Water Bbls. <u>225</u> Gas-Oil Ratio <u>24°</u> Gravity <u>24°</u>

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

METHOD OF COMPLETION:  Open Hole  Perforation  Dually Completed  Commingled  Other (Specify) \_\_\_\_\_

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

**ORIGINAL WORK ORDER CONTRACT  
 AND PRE-TREATMENT DATA**

FORM 1908 R-7

ATTACH TO INVOICE & TICKET NO. 126308

DISTRICT Pratt, Ks

DATE 4 27 91

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

WELL NO. 3 LEASE Harms SEC 17 TWP. D1S RANGE 13W

FIELD \_\_\_\_\_ COUNTY Stafford STATE Ks OWNED BY Some

**THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT**

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM TO						
PACKER: TYPE	SET AT						
TOTAL DEPTH	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							
CASING		<u>u</u>	<u>23</u>	<u>8 7/8</u>	<u>KB</u>	<u>337</u>	
LINER							
TUBING							
OPEN HOLE				<u>12 1/4</u>	<u>337</u>	<u>340</u>	SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

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

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HORSEPOWER ORDERED \_\_\_\_\_  
Set 8 7/8 at 337' w/ 170 sks (40-60) P.oz mix 2% accel, 3% cc  
50 sks standard 3% cc

**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 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 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) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, 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 divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
  - That because of the uncertainty of variable well conditions and the necessity of relying on Halliburton's services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any data, information, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in recommending such services. Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages 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 SET FORTH IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the use of the 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.
  - That Customer 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 its 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 for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned 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 \_\_\_\_\_ CUSTOMER  
 DATE 4 27 91  
 TIME 16 30 A.M. (P.M.)

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

**CUSTOMER**

**JOB LOG**

WELL NO. 3 LEASE Horns TICKET NO. 126308  
 CUSTOMER Wilton Petroleum Inc. PAGE NO. 1  
 ORIGINAL JOB TYPE 8 5/8 Surface DATE 4.27.91

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1330							Called out
	1500							On location
	1515							Set up truck
	1750							Break circulation
	1755	6	0		✓		250	Start mixing cement
	1807	6	48.5		✓		140	Finish mixing cement
	1808		—				—	Release Plug.
	1809	1	1		✓		0	Start Displacement
	1815	6	20.7		✓		155 NO	Plug down at 322' By wireline
								Good cement returns 15 sks
								Wash + Rack up
								Job complete
								Thank You

RECEIVED  
 STATE COMMISSION

SEP 04 1991

CONSERVATION DIVISION  
 Wichita, Kansas

51936-P  
 81870 Jerry Bonnell  
 88500 Kevin Gardley  
 Pete Horn  
 E0302 Steve Peck



# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

Oklahoma City  
Great Bend, Ks.

BILLED ON TICKET NO. 126308

CUSTOMER: Williams Petroleum Inc. LEASE: Herms  
WELL NO: 3  
JOB TYPE: 8 5/8" Surface  
DATE: 4.27.91

ORIGINAL 17

### WELL DATA

FIELD \_\_\_\_\_ SEC. 17 TWP. 21S RNG. 13W COUNTY Stafford STATE Ks.

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

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

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

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

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

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

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

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

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	4	23	8 7/8	KB	337	
LINER						
TUBING						
OPEN HOLE			12 1/4	337	340	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

### JOB DATA

CALLS OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 4.27	DATE 4.27	DATE 4.27	DATE 4.27
TIME 1330	TIME 1540	TIME 1630	TIME 1745

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
J Bennett	RCM	
K Gardley	51936	25520
P Hum	R-11K	
S Peck	2656	25520

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG	Wood 1	Howco
HEAD	Mowifold 1	"
PACKER		
OTHER		

### MATERIALS

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

DISPL. FLUID \_\_\_\_\_ DENISTY \_\_\_\_\_ LB/GAL-API

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

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

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

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

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

NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN.

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

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

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

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

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

PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT Cement

DESCRIPTION OF JOB 8 7/8" Surface

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE X *[Signature]*

HALLIBURTON OPERATOR Jerry Bennett COPIES REQUESTED \_\_\_\_\_

### CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	170	40-60	Pozmix	B	2% gel, 3% cc	1.27	14.3
	50	Standard		B	3% cc	1.18	15.6

RECEIVED

STATE CORPORATION COMMISSION

### PRESSURES IN PSI

### SUMMARY

### VOLUMES

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

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ 38.4 + 10.5 = 48.9

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL-GAL. \_\_\_\_\_ DISPL. BBL-GAL. 20.9

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

HYDRAULIC HORSEPOWER \_\_\_\_\_ WICHITA, KANSAS

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ TOTAL VOLUME: BBL-GAL. \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEED \_\_\_\_\_ REASON Request

SEP 04 1991

CO. REGISTRATION DIVISION  
Wichita, Kansas

### REMARKS

**ORIGINAL** A Division of Halliburton Company

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME #3 Harms		COUNTY Stafford	STATE Ks.	CITY / OFFSHORE LOCATION	DATE 4-21-91
CHARGE TO Wilton Petroleum Inc.			OWNER Same	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	
ADDRESS			CONTRACTOR Allen Brk Rig #1	LOCATION 1 Great Bend, Ks. 25520	
CITY, STATE, ZIP			SHIPPED VIA Co Trk	LOCATION 2	
WELL TYPE 01			WELL PERMIT NO. 15-185-02767	LOCATION 3	
TYPE AND PURPOSE OF JOB DIO			DELIVERED TO Location	CODE	
			ORDER NO. B-918149	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 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 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			
000-117		1		MILEAGE	12	mi			2.60	31	20
001-016		1		Pump Charge	8	hr	337	ft	515.	515	00
030-503				Plug wood	1	ea	8 7/8		90.00	90	00
<p><b>NOT THIS IS AN INVOICE</b></p> <p>RECEIVED STATE CORPORATION COMMISSION SEP 04 1991 CONSERVATION DIVISION Wichita, Kansas</p>											

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

**B-918149**

1994 73

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

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

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

*Kenneth Schmitt*  
CUSTOMER OR HIS AGENT (PLEASE PRINT)

*Kenneth Schmitt*  
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.

*Jerry Beaudett*  
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

CUSTOMER

SUB TOTAL

APPLICABLE TAXES WILL BE ADDED ON INVOICE.



# BULK MATERIALS DELIVERY AND TICKET CONTINUATION

FOR INVOICE AND  
TICKET NO.

126308

# ORIGINAL

DATE <b>4-27-91</b>	CUSTOMER ORDER NO.	WELL NO. AND FARM <b>Harms 3</b>	COUNTY <b>Stafford</b>	STATE <b>Ks.</b>
CHARGE TO <b>Wilton Petroleum</b>		OWNER <b>Same</b>	CONTRACTOR <b>Allen Drilling</b>	No. <b>B 918149</b>
MAILING ADDRESS		DELIVERED FROM <b>Great Bend, Ks.</b>	LOCATION CODE <b>25520</b>	PREPARED BY <b>J.M. Sheets</b>
CITY & STATE		DELIVERED TO <b>Location</b>	TRUCK NO. <b>2636-6605</b> <del>1370-5021</del>	RECEIVED BY <b>Wm B. Smith</b>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
		L	D		QTY.	MEAS.	QTY.	MEAS.		
504-308	516.00261	1	b	Standard Cement	50	sk			5.35	267.50
				170 40% Pozmix 60% Cement 2% Gel						
505-308	516.00261	1	b	Standard Cement	102	sk			5.35	545.70
506-105	516.00286	1	b	Pozmix A	68	sk			2.79	189.72
506-121	516.00259	1	b	3 Halliburton Gel 2% allowed						NC
509-406	890.50812	1	b	Calcium Chloride 3% W/220	5	sk			26.25	131.25
					Returned Mileage Charge					
					TOTAL WEIGHT	LOADED MILES	TON MILES			
					SERVICE CHARGE ON MATERIALS RETURNED			CU. FEET		
500-207		1	b	SERVICE CHARGE			CU. FEET 230	1.15	264.50	
500-306		1	b	Mileage Charge	20.012	12	120.07	.80	96.06	
					TOTAL WEIGHT	LOADED MILES	TON MILES			
No. <b>B 918149</b>				CARRY FORWARD TO INVOICE				SUB-TOTAL	1494.73	

THIS IS NOT AN INVOICE

RECEIVED  
STATE CORPORATION COMMISSION

SEP 04 1991

CONSERVATION DIVISION  
Wichita, Ks 67339

CUSTOMER



TICKET

NO. 125548-5

PAGE 1 OF 2 PAGES

ORIGINAL

HALLIBURTON SERVICES  
Duncan, Oklahoma 73856  
A Division of Halliburton Company

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME #3. <i>Harms</i>		COUNTY <i>STAFFORD</i>	STATE <i>KS</i>	CITY / OFFSHORE LOCATION	DATE <i>5-3-91</i>
PURCHASER TO <i>Hilton Petroleum Inc</i>		OWNER <i>Same</i>	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR <i>Allen Drilg</i>	LOCATION <i>16t Bend</i>		CODE <i>25520</i>
CITY, STATE, ZIP		SHIPPED VIA <i>51797</i>	FREIGHT CHARGES <input type="checkbox"/> PFD <input type="checkbox"/> COLLECT	LOCATION <i>2</i>	CODE
WELL TYPE <i>1</i>	WELL CATEGORY <i>01 Dev 01</i>	WELL PERMIT NO. <i>15-185-22767</i>	DELIVERED TO <i>Location</i>	LOCATION <i>3</i>	CODE
TYPE AND PURPOSE OF JOB <i>exp. string</i>		ORDER NO. <i>035 B-934681</i>	REFERRAL LOCATION		

As consideration for 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 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 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.	LOC.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
					QTY	MEAS	QTY	MEAS			
20-117		1		MILEAGE	12	mi			2.60	31	20
01-016		1		Pump Charge	8	hrs	3766	ft.		1240	00
30-018		1		5w Plug	1	sq	5 1/2	in		60	00
18-317		1	14344	Superflush	12	skt	500	gal	1.87	1044	00
19-241		1		Rotating Head	1	sq				155	00
12A	825.205	1	14269	Guide Shoe	1	sq	5 1/2	in		105	00
24A	815.19251	1		Insert Flngt	1	sq	5 1/2	in		83	00
27	815.19311	1		Auto Fillup Tbc	1	sq	5 1/2	in		30	00
40	807.93022	1	14272	Centralizers	6	sq	5 1/2	in	44.00	264	00

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SEP 04 1991  
CONSERVATION DIVISION  
Wichita, Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B-934681** 1884 39

WAS JOB SATISFACTORILY COMPLETED? \_\_\_\_\_  
 WAS OPERATION OF EQUIPMENT SATISFACTORY? \_\_\_\_\_  
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY? \_\_\_\_\_  
*W. Stewart*  
 CUSTOMER OR HIS AGENT (PLEASE PRINT)  
*W. Stewart*  
 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.

*Glen Byerly*  
 HALLIBURTON OPERATOR  
*Bill Johnson*  
 HALLIBURTON APPROVAL  
 FIELD OFFICE

①  
 SUB TOTAL 4876.57  
 APPLICABLE TAXES WILL BE ADDED ON INVOICE.





HALLIBURTON SERVICES  
Duncan, Oklahoma 73538

A Division of Halliburton Company

**BULK MATERIALS DELIVERY  
AND**

**ORIGINAL TICKET CONTINUATION**

FOR INVOICE AND  
TICKET NO.

125548

DATE <b>5-3-91</b>	CUSTOMER ORDER NO.	WELL NO. AND FARM <b>Horns #3</b>	COUNTY <b>Stafford</b>	STATE <b>Ks.</b>
CHARGE TO <b>Wilton Petroleum</b>		OWNER <b>Wilton Petro.</b>	CONTRACTOR <b>Allen Drilling</b>	No. <b>B 934681</b>
MAILING ADDRESS		DELIVERED FROM <b>Great Bend, Ks.</b>	LOCATION CODE <b>25520</b>	PREPARED BY <b>S.C. Henry</b>
CITY & STATE		DELIVERED TO <b>Location</b>	TRUCK NO. <b>0513</b>	RECEIVED BY <i>Allen Beyerly</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
		L	D		QTY.	MEAS.	QTY.	MEAS.		
				<b>175 40% Pozmix/60% Cement</b>						
<b>504-308</b>	<b>516.00261</b>	<b>1</b>	<b>B</b>	<b>Standard Cement</b>	<b>105</b>	<b>sk</b>			<b>5.35</b>	<b>561.75</b>
<b>506-105</b>	<b>516.00286</b>	<b>1</b>	<b>B</b>	<b>Pozmix A</b>	<b>70</b>	<b>sk</b>			<b>2.79</b>	<b>195.30</b>
<b>506-121</b>	<b>516.00259</b>	<b>1</b>	<b>B</b>	<b>3 Halliburton Gel 2% allowed</b>						<b>NC</b>
<b>509-968</b>	<b>516.00315</b>	<b>1</b>	<b>B</b>	<b>Salt Blended 10%/175</b>	<b>900</b>	<b>lb.</b>			<b>.10</b>	<b>90.00</b>
<b>509-968</b>	<b>516.00158</b>	<b>1</b>	<b>B</b>	<b>Salt not mixed</b>	<b>400</b>	<b>lb.</b>			<b>.10</b>	<b>40.00</b>
<b>508-292</b>	<b>70.15573</b>	<b>1</b>	<b>B</b>	<b>Gilsonite Blended 5%/175</b>	<b>900</b>	<b>lb.</b>			<b>.47</b>	<b>423.00</b>
<b>507-153</b>	<b>516.00161</b>	<b>1</b>	<b>B</b>	<b>CFR-3 Blended 4%/175</b>	<b>60</b>	<b>lb.</b>			<b>4.10</b>	<b>246.00</b>

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Wichita, Kansas

		Returned Mileage Charge	TOTAL WEIGHT	LOADED MMLES	TON MILES				
		SERVICE CHARGE ON MATERIALS RETURNED				CU. FEET			
<b>500-207</b>	<b>1</b>	<b>B</b>	<b>SERVICE CHARGE</b>			<b>212</b>	<b>1.15</b>	<b>243.80</b>	
<b>500-306</b>	<b>1</b>	<b>B</b>	Mileage Charge	<b>17.611</b>	<b>12</b>	<b>105.67</b>	<b>.80</b>	<b>84.54</b>	
No. <b>B 934681</b>		CARRY FORWARD TO INVOICE			SUB-TOTAL		<b>1884.39</b>		

DISTRICT Great Bend

DATE 5-3-91

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

WELL NO. # 3 LEASE Harms SEC. 17 TWP. 21S RANGE 13

FIELD \_\_\_\_\_ COUNTY STAFFORD STATE KS OWNED BY Sqml

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM TO						
PACKER: TYPE	SET AT						
TOTAL DEPTH	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							
CASING		<u>✓</u>	<u>14#</u>	<u>5 1/2"</u>	<u>KB</u>	<u>3766'</u>	
LINER							
TUBING							
OPEN HOLE				<u>7 7/8"</u>	<u>3766'</u>	<u>3767'</u>	SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

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

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HORSEPOWER ORDERED

Set 5 1/2" Long string with 125 sks 40/60 P02 10% Salt 4% CFR-3  
5# Gilsonts, pre-flush with 20 bbl/40# Salt Flush and 12 bbl Superflush  
Rotate Pipe Total Pipe 3769 ft

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 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 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.
- That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages 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 any cause of action (whether 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 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.
- That Customer 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 its 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 for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned 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 \_\_\_\_\_ CUSTOMER

DATE 5-3-91

TIME 01:30 P.M.



# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

OKIAHUMA, I.T.Y.  
Gt Bend

BILLED ON TICKET NO. 125548

WELL DATA  
 FIELD \_\_\_\_\_ SEC. 17 TWP. 21S. RING. 13 COUNTY STAFFORD 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

CALLS OUT DATE 5-2-91	ON LOCATION DATE 5-3-91	JOB STARTED DATE 5-3-91	JOB COMPLETED DATE 5-3-91
TIME 12:00	TIME 01:00	TIME 02:30	TIME 06:30

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE 1 1/2" x 5 1/2"	1	Howco
GUIDE SHOE Reg 5 1/2"	1	"
CENTRALIZERS 3-4 5 1/2"	6	"
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER Rotating Head	1	"

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
G Byerly 85826	51797	Gt Bend
W Wilsey 09377	Comb	"
D Ramsey B2824	0513 Bulk	"

### MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API  
 DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 ACID TYPE \_\_\_\_\_ GAL. %  
 SURFACTANT TYPE \_\_\_\_\_ GAL. IN.  
 NE AGENT TYPE \_\_\_\_\_ GAL. IN.  
 FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB.  
 GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB.  
 FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB.  
 BREAKER TYPE \_\_\_\_\_ GAL.-LB.  
 BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB.  
 PERFPAC BALLS TYPE \_\_\_\_\_

DEPARTMENT Cement  
 DESCRIPTION OF JOB 5 1/2" Long string  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.   
 CUSTOMER REPRESENTATIVE X  
 HALLIBURTON OPERATOR Allen Byerly COPIES REQUESTED \_\_\_\_\_

### CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	175	40/60	Poz B		10% Salt, 4% CFR-2, 5% 6.5m. etc	1.43	14.05

### PRESSURES IN PSI

### SUMMARY

### VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH: 20 + 12 BBL-GAL. TYPE Salt & Superslush  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: \_\_\_\_\_ BBL-GAL. PAD: \_\_\_\_\_ BBL-GAL.  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: \_\_\_\_\_ BBL-GAL. DISPL: 91.3 BBL-GAL.  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: 44.6 BBL-GAL.  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ TOTAL VOLUME: \_\_\_\_\_ BBL-GAL.  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_ REMARKS  
 FEET 28.91 REASON Shoe JT Cont 1-2-3-5-7-9  
Rotating Pipe  
Float at 3737' / KB

CUSTOMER: Wilson Petroleum  
 LEASE: Harms  
 WELL NO.: #3  
 JOB TYPE: Long string  
 DATE: 5-3-91

**HALLIBURTON SERVICES**  
**JOB LOG**

WELL NO. FF 3 LEASE Harms TICKET NO. 125548-5

CUSTOMER Wilton Petroleum PAGE NO. 1

FORM 2013 R-2

UNIT Long string

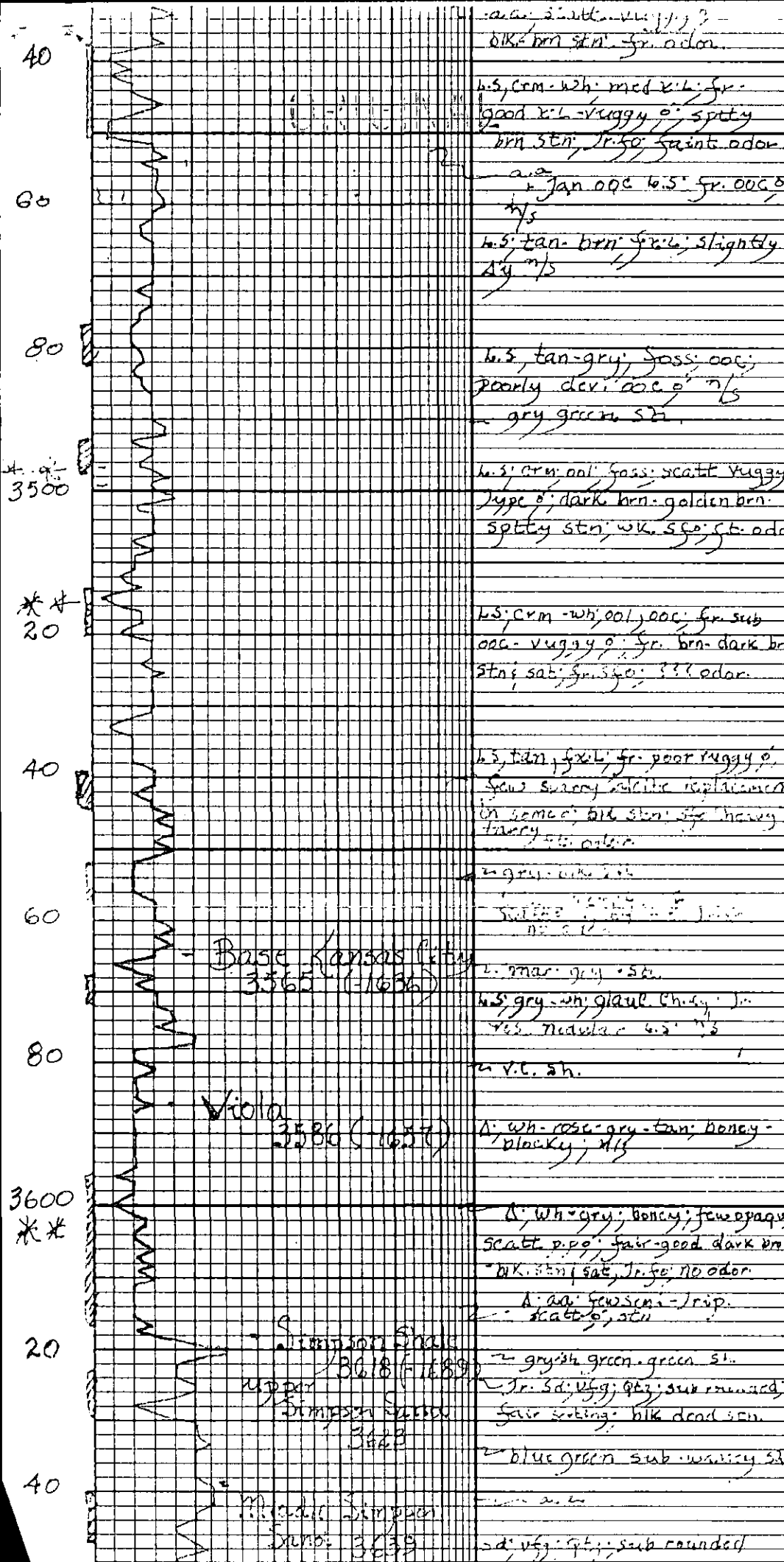
DATE 5-3-91

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	01:00							On Location
	02:30							Run Float Equipment cut 1-2-3-5-7-9
	04:00							Casing on Bottom
	04:15							Break Circulation (R.g Pump)
	04:56	6	20			300		Run Salt Flush
	05:00	6	3			300		Run Spacer
	05:01	6	12			300		Run Super Flush
	05:03	6	3			300		Run Spacer
	05:05	5.5				300		Start Mixing
	05:12	5.5	44.6			200		Finish Mixing
	05:15							- Plug Rathole 10stk
	05:16							Wash out lines
	05:18							Release plug
	05:19	8				200		Start Displacement
	05:25	8				400		Cement on Bottom
	05:29	5				300		Reduce Rate
	05:30		91.3			1000		Land Plug BY line 3734'
	05:35							- Release PSI (Held)
								Wash up
								Job Complete
								Thanks
								Glen Byrly
								Wayne Wilson

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STATE CORPORATION COMMISSION

SEP 04 1991

CONSERVATION  
Wichita, Kansas



med check (Davis) 3448  
 visc. 44  
 wt. 9.4#  
 wL. 10.4cc.

Drill Stem Test #1  
 3484-3555

Mis run -  
 Hit bridge at 631'  
 tool would not open -  
 (Hit bridge @ 720' going  
 back in w/ bit after test.)  
 (possibility that Bottom  
 joint of surface knocked  
 off.)

Strap @ 3555  
 +.83 ↑ uphole  
 no corrections

Base Kansas City 3565 (-1636)

Viola 3586 (-1657)

Simpson Shale 3618 (-1689)  
 upper Sand 3623 (-1694)  
 Middle Simpson Sand 3639 (-1710)

dark. silt. wh. med. v. l. fr.  
 blk. brn. stn. fr. odor.

h.s. crm. wh. med. v. l. fr.  
 good v. l. vuggy o. spotty  
 brn. stn. Jr. fo. faint odor

h.s. tan-brn. fr. l. slightly  
 dy n/s

h.s. tan-gry; fass; ooc;  
 poorly dev. ooc o' n/s  
 gry green. sh.

h.s. crm. ool. fass. scatt. vuggy  
 type o'; dark. brn. golden brn.  
 spotty stn; wk. sfo; st. odor.

h.s. crm. wh. ool. ooc; fr. sub  
 ooc. vuggy o' fr. brn. dark brn.  
 stn; sat; fr. sfo; st. odor.

h.s. tan. fr. l. fr. poor vuggy o'.  
 some sandy calc. replacement  
 in some o'; blk. stn. fr. heavy  
 trace of oil.

h. gry. wh. sh.

h. mar. gry. sh.

h.s. gry. wh. glauc. ch. sh. Jr.  
 ves. nodular 4.2" sh.

h. v. l. sh.

h. wh. rose-gry. tan; honey-  
 blocky; n/s

h. wh. gry; honey; few oyaque  
 scatt. p. o'; fair-good dark brn.  
 blk. stn; sat; Jr. fo; no odor.

h. wh. fass. sh. - Jr. p.  
 scatt. o', stn

h. gry. sh. green. green. sh.  
 Jr. sd; v. l. qtz; sub rounded  
 fair sorting; blk. dead stn.

h. blue green sub. waxy sh.

h. d. v. l. qtz; sub rounded

Base Kansas City  
 3365 (-1636)

Viola  
 3586 (-1657)

Simpson Shale  
 3618 (-1689)

Upper  
 Simpson Sand  
 3623

Middle Simpson  
 Sand  
 3639