

ORIGINAL

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

API NO. 15- 155-21,158-0000

Operator: License # 30146

Name: Mach Petroleum, Inc.

Address P.O. Box 35583

Tulsa, Oklahoma 74153

City/State/Zip _____

Purchaser: Scurlock-Permian

Operator Contact Person: Thomas C. Mach

Phone (918)496-0442

Contractor: Name: Duke Drilling Co.

License: 5929

Wellsite Geologist: Dan Fredlund

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW T
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expt., 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 _____ PBTB
Commingled _____ Docket No. _____
Dual Completion _____ Docket No. _____
Other (SWD or Inj?) _____ Docket No. _____

11/2/91 11/7/91 12/9/91
Spud Date Date Reached TD Completion Date

County Reno

N/2_NW_NE_21 Sec. 25S Twp. 9 Rge. X W ^E

4950 Feet from N (circle one) Line of Section

1969 Feet from W (circle one) Line of Section

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

Lease Name Hansen Well # 1

Field Name Langdon

Producing Formation Mississippi Chat

Elevation: Ground 1673 KB 1681

Total Depth 4005 PBTB 3954

Amount of Surface Pipe Set and Cemented at 181 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 cat.

Drilling Fluid Management Plan AIT
(Data must be collected from the Reserve Pit)

chloride content 7700 ppm Fluid volume 200 bbls

Dewatering method used Haul

Location of fluid disposal if hauled offsite: _____

Operator Name C & C Tank Service, Inc.

Lease Name Roach SWD License No. 30708

Quarter _____ Sec. 14 Twp. 23 S Rng. 9 E/W

County Reno Docket No. D-22208

RECEIVED
STATE CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WICHITA, KANSAS
MAR - 2 1992
3-2-92

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 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 Thomas C. Mach
Title President Date 3/2/92

Subscribed and sworn to before me this 2 day of March
19 92.

Notary Public Jerry Wattle
Date Commission Expires August 2, 1994

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

SIDE TWO

Operator Name Mach Petroleum, Inc. Lease Name Hansen Well # 1

Sec. 21 Twp. 25S Rge. 9W East West County Reno

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 checked="" 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	Heebner	3155	-1474
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LKC	3372	-1691
List All E.Logs Run:		Swope	3636	-1955
		Hertha	3671	-1990
		Cherokee	3832	-2151
		Mississippi	3851	-2170
		Kinderhook	3949	-2268

DIL/FDC/CNL/GR/SP/CBL/Correlation GR

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	23	181	60/40 Poz	190	3% CC, 2% Gel
Production	7 7/8	5 1/2	15.5	4009	60/40 Poz	150	2% Gel, 10% Sal

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
2	3856-3866	2500g 15% Mud Acid	3856-66

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 7/8"	3896		

Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
February 2, 1992	

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	175	25	400	142	34.6

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: 3852
3874

HALLIBURTON SERVICES

SUMMARY

HALLIBURTON LOCATION

ORIGINAL

FILED ON TICKET NO.

112854

WELL DATA

FIELD _____ SEC. 21 TWP. 25 RNG. 9W COUNTY RENE STATE KS

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESSENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

NSC. DATA 40 12 3000 650 TOTAL DEPTH _____

USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PS ALLOWABLE
CASING	U	13.5	5 1/2	45	4000
LINER					
TUBING					
OPEN HOLE					SHOTS/FT.
PERFORATIONS					
PERFORATIONS					
PERFORATIONS					

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT VALVE <u>2 1/2"</u>	1	Hawsco
GUIDE SMOKE <u>2 1/2"</u>	1	Hawsco
CENTRALIZERS <u>5 1/2"</u>	4	Hawsco
BOTTOM PLUG		
TOP PLUG <u>5 1/2"</u>	1	Hawsco
HEAD <u>2 1/2"</u>	1	Hawsco
OTHER <u>Pressure Head</u>	1	Hawsco
OTHER <u>Pressure Gauge</u>	1	Hawsco

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-7</u>	DATE <u>11-8</u>	DATE <u>11-8</u>	DATE <u>11-8</u>
TIME <u>2:30</u>	TIME <u>0:00</u>	TIME <u>09:30</u>	TIME <u>11:00</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. Taylor</u>	<u>C1620</u>	<u>35748</u>
<u>C. Understone</u>	<u>E2040</u>	<u>2504 (D)</u>
<u>K. D. ...</u>	<u>81660</u>	<u>4142-1160</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API

DISPL. FLUID _____ DENSITY _____ 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.

FRG. RED. AGENT TYPE _____ GAL-LB _____ IN.

BREAKER TYPE _____ GAL-LB _____ IN.

BLOCKING AGENT TYPE _____ GAL-LB _____ IN.

PERMPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT Conservation

DESCRIPTION OF JOB Conservation of L.S.

JOB DONE THRU: TUBING CASING ANNULUS TCG-MANN.

CUSTOMER REPRESENTATIVE X [Signature]

HALLIBURTON OPERATOR [Signature] COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK CEMENTED	YIELD CU.FT./SCK	MIXED LB./SCK
	150	Waka Pce	Hawsco	7	1.44	14.0
Grade	25	Yellow Pce	Hawsco	3		

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 112854
 MAR - 5 1992

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN INSTANT _____ SAHM _____ 10-MIN _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DEPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 144 REASON HIF

SUMMARY CONSERVATION DIVISION

Wichita, Kansas

VOLUMES

PREFLUSH _____ SUPPLEMENT _____ TYPE _____

LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____

TREATMENT: BBL-GAL _____ DISP: BBL-GAL 74.2

CEMENT SLURRY: BBL-GAL 38.4 (1500)

TOTAL VOLUME: BBL-GAL _____

REMARKS

See Job Log

THINKS DONE

CUSTOMER: Wichita Conservation Commission
 WILL. NO.: 112854
 JOB TYPE: Conservation
 DATE: 11-8-91

HALLIBURTON SERVICES

ORIGINAL NO. 173854-6

TICKET

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME 1 HAUSEY		COUNTY SEMO	STATE KS	CITY / OFFSHORE LOCATION	DATE 11-8-91
CHARGE TO ARCH Petroleum, Inc.		OWNER Sims	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		INITIALS YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR Duke 12-66	1 LOCATION P.O. Box 11		CODE 25555
CITY, STATE, ZIP		SHIPPED VIA D/S 04	2 LOCATION		CODE
WELL TYPE 01		WELL CATEGORY 01	3 LOCATION		CODE
TYPE AND PURPOSE OF JOB 035		WELL PERMIT NO. B-593341	ORDER NO.		GENERAL LOCATION

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's contract price book, which is payable MET by the 25th 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 10% 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 contract law governs the performance of equipment or materials that furnished.


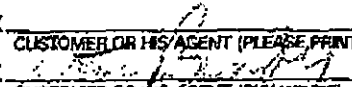
HALLIBURTON MAKES NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE UNDER EITHER COMMON LAW OR THE UNIFORM COMMERCIAL CODE. HALLIBURTON'S LIABILITY AND CUSTOMER'S REMEDY ARE LIMITED TO THE ACTUAL (INCLUDING REASONABLE) COST OF REPAIR OR REPLACEMENT OF THE GOODS OR SERVICES PROVIDED BY HALLIBURTON. HALLIBURTON'S LIABILITY IS LIMITED TO THE EXTENT OF THE CONTRACT PRICE. HALLIBURTON'S LIABILITY IS LIMITED TO THE EXTENT OF THE CONTRACT PRICE. HALLIBURTON'S LIABILITY IS LIMITED TO THE EXTENT OF THE CONTRACT PRICE.

INVOICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117				MILEAGE	25	MIL	1	TRK	2.60	65.00
201-016				PUMP CHANGE	4804	FR	8	MCS		1300.00
030-016				TRIP PLUG	1	EA	5/2	IN		3.00
013-317				SURF BRUSH	12	SKS	734	GAL	87.00	1044.00
213-738				CLAFIX II	5	GA.			20.00	100.00
218-702				ROSOIL 259	4	DR			24.00	96.00
124	825.205			CONCRETE (P.C.)	1	YD	55	YD		105.00
24 A	815.19251			TRIP PLUG	1	EA	55	YD		83.00
27	815.19311			TRIP PLUG	1	EA	55	YD		30.00
40	807.93022			CONCRETE	4	YD	55	YD	44.00	176.00
300	800.8383			CONCRETE	1	YD	55	YD		90.00
019, 241				CONCRETE	1	YD	55	YD		155.00

THIS IS NOT AN INVOICE

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STATE CORPORATION COMMISSION
MAR - 5 1992
CONSERVATION DIVISION
Wichita, Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B- 593341** 2134 18

HAS JOB SATISFACTORILY COMPLETED? AS OPERATION OF EQUIPMENT SATISFACTORY? AS PERFORMANCE OF PERSONNEL SATISFACTORY?	WE CERTIFY THAT THE FUEL LOADS, STANDARDS ACT OF 1968, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.  HALLIBURTON OPERATOR	SUB TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE
CUSTOMER OR HIS AGENT (PLEASE PRINT)  CUSTOMER OR HIS AGENT (SIGNATURE)	HALLIBURTON APPROVAL CUSTOMER	



A Division of Halliburton Company
DURHAM, OKLAHOMA 73035

AND
TICKET CONTINUATION

ORIGINAL

FOR INVOICE AND
TICKET NO. 173831

DATE 11/7/91	CUSTOMER ORDER NO.	WELL NO. AND FARM 1 Hansen	COUNTY Woods	STATE Ks.
CHARGE TO	OWNER P. Hansen	CONTRACTOR	No. B573341	
CITY & STATE	DELIVERED TO Well Site	PHONE NO. 4162-6660	PREPARED BY J. J. [unclear]	

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE L D	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
				QTY.	MEAS.	QTY.	MEAS.		
Front			40/60 Pozmix Cement	140	Sk				
504-308			Standard Cement	90	Sk			5.35	481.50
506-105			Pozmix A	60	Sk			3.29	197.40
506-121			Halliburton Gel	3	Sk				B/C
508-291			Gilsonite	900	#			.35	315.00
509-968			Salt	750	#			.10	75.00
507-775			Balad 322	97	#			6.15	596.55
Rear			40/60 Pozmix Cement	25	Sk				
504-308			Standard Cement	15	Sk			5.35	80.25
506-105			Pozmix A	10	Sk			3.29	32.90
506-121			Halliburton	1	Sk				N/C
Returned Mileage Charge			TOTAL WEIGHT	LOADED MILES	TON MILES				
SERVICE CHARGE ON MATERIALS RETURNED			CONSERVATION DIVISION Wichita, Kansas			CU. FEET			
500-207			SERVICE CHARGE			CU. FEET	204	1.15	234.60
500-386			Mileage Charge	17.098	25	TON MILES	213.72	.80	170.98
No. B			CARRY FORWARD TO INVOICE			SUB-TOTAL		2,184.18	

THIS IS NOT AN INVOICE

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STATE CORPORATION COMMISSION
MAR - 3 - 1992

CUSTOMER

HALLIBURTON SERVICES

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ORIGINAL

FORM 1808 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO.

173854

DISTRICT PRATT KS

DATE 11-8-91

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

WELL NO. 1 LEASE HAUSEN SEC. 21 TWP. 25 RANGE 9W

FIELD _____ COUNTY Pratt STATE Ks OWNED BY _____

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						
WACKER: TYPE	SET AT						
TOTAL DEPTH	MUD WEIGHT						
CORE HOLE							SHOT/GFT.
VITAL PROD: OIL BPD, H ₂ O BPD, GAS MCF							
PRESENT PROD: OIL BPD, H ₂ O BPD, GAS MCF							
CASING		<u>U</u>	<u>15.5</u>	<u>5 1/2</u>	<u>KS</u>	<u>4001</u>	
LINER							
TUBING							
OPEN HOLE							
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

REVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

Control 5% L.S. w/ 150 lbs 40/60 for 27.7 HALL, 102 SWF, 75% HALL 34
6" hole with 12" hole suspended well become control w/ fresh 1100 sacks

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 shall be liable 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 amount, 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), in any way, 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 person or property) 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 materials.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) shall not apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unreasonableness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether at 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 its 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 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 normal 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 of 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 whose services are performed or materials are furnished.
 - That Halliburton shall not be bound by any changes or modifications in this contract, except when such change or modification is made in writing by a duly authorized executive officer of Halliburton.

STATE CORPORATION COMMISSION
 MAR 5 1992
 CONSERVATION DIVISION
 Wichita, Kansas

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED _____ CUSTOMER
 DATE 11-8-91
 TIME _____ P.M.

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

CUSTOMER

JOB LOG

WELL NO. 1

LEASE HORSE

TICKET NO. 17 P 554

CUSTOMER MACH Petroleum

PAGE NO.

ORIGINAL

FORM 2013 R-2

JOB TYPE 5 1/2" Logging

DATE 11-8-91

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
1791	2310							CALLS OUT READY @ 100
1891	0100							on loc - Finish Logging Hole
	0130							START DRILL PIPE OUT HOLE
	0207							DRILL PIPE OUT BOTTOM - CIRCULATE -
	0330							START OUT OF HOLE w/ DRILL PIPE
	0630							DRILL PIPE OUT OF HOLE
	0730							Rig up to run 5 1/2" casing
	0815							START casing to hole
	0830							Casing to floor - Drill Pipe
								START Circulation of Rig area Pump
								Finish Circulation
								Block to Holes
								Cement as follows:
0920	1030	5.0	5.0	-	-	300		Pump Fresh No. 1
		5.0	12.0	-	-	300		Pump Fresh No. 2
0925	1035	5.0	5.0	-	-	300		Pump Fresh No. 3
0926	1036	5.4	0	-	-	400		Start mixing Cement
0933	1037	5.4	38.4	-	-	725		Finish mixing Cement (150 lbs)
0935	1035							Load out Pump & Lines
								Release Plug
0937	1037	8.5	0	-	-	300		START DISPLACEMENT
0948	1048	8.5	94.7	-	-	800		Plug Down - Press up 1200
0953	1048	1.0	3.5	-	-	0		Plug Run Hole
1020	1120	1.0	2.0	-	-	0		Plug mouse hole
1100	1100							Job Complete

RECEIVED

 STATE CORPORATION COMMISSION

 MAR 3 1992

 CONSERVATION DIVISION

 Wichita, Kansas

CUSTOMER

HALLIBURTON SERVICES

SUMMARY

WELL DATA

FIELD _____ SEC. 20 TWP. 21 RANG. 9 COUNTY Wichita STATE Kans

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ SPD. WATER _____ SPD. GAS _____ MCFD _____

PRESENT PROD: OIL _____ SPD. WATER _____ SPD. GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH 192

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PER ALLOWABLE
CASING		<u>21</u>	<u>8 1/2</u>	<u>2</u>	<u>191</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
GENERALIZERS <u>500</u>	<u>1</u>	<u>Husco</u>
BOTTOM PLUG		
TOP PLUG <u>CDI</u>	<u>1</u>	<u>Husco</u>
HEAD <u>HC</u>	<u>1</u>	<u>Husco</u>
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-2</u>	DATE <u>11-2</u>	DATE <u>11-2</u>	DATE <u>11-3</u>
TIME <u>18:00</u>	TIME <u>20:00</u>	TIME <u>22:30</u>	TIME <u>02:30</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. Baker</u>	<u>Packer 5145</u>	<u>Wichita</u>
<u>C. T. Johnson</u>	<u>2450 (D)</u>	<u>"</u>
<u>M. Johnson</u>	<u>2450 (D)</u>	<u>"</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ US GAL/AFI _____

DISPL. FLUID _____ DENSITY _____ US GAL/AFI _____

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 _____

PRC. RED. AGENT TYPE _____ GAL-LB _____ IN _____

BREAKER TYPE _____ GAL-LB _____ IN _____

PLUGGING AGENT TYPE _____ GAL-LB _____

PERF-PAC BALLS TYPE _____ QTY. _____

OTHER _____

DEPARTMENT Central

DESCRIPTION OF JOB Pressure Test Services

JOB DONE THRU: TUBING CASING ANNULUS TEG JANN.

CUSTOMER REPRESENTATIVE X Steve Ruddy

HALLIBURTON OPERATOR Wichita COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF BAGS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU FT/5K	MIXED US GAL
	<u>140</u>	<u>Acryl. M</u>	<u>Husco</u>	<u>8</u>	<u>2% ZINC SULFATE RECEIVED</u>	<u>1.29</u>	<u>14.31</u>
	<u>30</u>	<u>Standard</u>	<u>United</u>	<u>8</u>	<u>STATE CORPORATION COMMISSION</u>	<u>1.18</u>	<u>15.6</u>

MAR 3 1992

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN INSTANT _____ 5-MIN _____ 15-MIN _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 15 REASON By Design

PRESLUSH CONSERVATION DIVISION TYPE 1120

LOAD & BKDN: Wichita, Kansas PAD: OBL-GAL _____

TREATMENT: BEL-GAL _____ DISPL: BEL-GAL 10.7

CEMENT SLURRY: OBL-GAL 31.6

TOTAL VOLUME: BEL-GAL _____

REMARKS SP1 Test Log



AND
TICKET CONTINUATION ORIGINAL

FOR INVOICE AND TICKET NO. 103851

DATE 11/02/91	CUSTOMER ORDER NO.	WELL NO. AND FARM Joy-Royce #17 Hanson	COUNTY Beno	STATE KS
CHARGE TO Mach Petroleum Inc	OWNER Same	CONTRACTOR Duke Drlg #2	No. B573336	
MAILING ADDRESS	DELIVERED FROM Fratt, KS	LOCATION CODE 25555	PREPARED BY Dave Sargent	
CITY & STATE Tulsa, OK	DELIVERED TO Relisite	TRUCK NO.	RECEIVED BY Boyer	

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
(Front)				140 sks 40% Pozmix / 60% Standard Cement Containing							
504-308				Standard Cement	84	sk			5.35	449.40	
506-105				Pozmix A	56	sk			3.29	184.24	
506-121				Allowed Gel 2%	2	sk			N/C	N/C	
509-406				Calcium Chloride 3%	4	sk			26.25	105.00	
504308				Standard Cement	50	sk			5.35	267.50	
RECEIVED STATE CORPORATION COMMISSION					LOADED MILES		TON MILES				
SERVICE CHARGE ON MATERIALS RETURNED					MAR - 5 1992		CU. FEET				
500-207				SERVICE CHARGE	CONSERVATION DIVISION Wichita, Kansas		158 198 CU. FEET		1.15	170.26	
500-306				Mileage Charge 12601 17301	25	LOADED MILES	157.51 TON MILES		0.80	126.01	
No. B	573336		CARRY FORWARD TO INVOICE					SUB-TOTAL		1054.86 1406.85	

THIS IS NOT AN INVOICE

CUSTOMER

HALLIBURTON SERVICES

WORK ORDER CONTRACT

FORM 1905 (1-7)

A Division of Halliburton Company

AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO.

173851

DISTRICT PBANK #5 DATE 11-2-91

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

WELL NO. 1 LEASE Jay ROUGE HANSON SEC. 20 TWP. 35 RANGE 9W

FIELD _____ COUNTY Ross STATE KS OWNED BY _____

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						
RACKER: TYPE	SET AT						
TOTAL DEPTH <u>282</u>	MUD WEIGHT						
BORE HOLE <u>1 3/4</u>							SHOTS/FT.
INITIAL PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF							
PRESENT PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF							
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED 2 1/2" CEL w/ 110 STS 4/8" w/ 220 GAL, 39 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

- a) 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.
- b) 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, expense, 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 seepage, 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.
- c) 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.
- d) 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.
- e) 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.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such changes or modifications are 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: [Signature] CUSTOMER
DATE: 11-2-91
TIME: 4:00 A.M./P.M.

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.

CUSTOMER



TICKET ORIGINAL NO. 173851-H

FORM 1908 R-11

WELL NO. - FARM OR LEASE NAME 1 <i>Ind Range Hanson</i>		COUNTY <i>Revue</i>	STATE <i>KS</i>	CITY / OFFSHORE LOCATION	DATE <i>11-2-91</i>
CHARGE TO <i>Mobil Production Fee</i>		OWNER <i>Mobil</i>	WELLS TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		INTEREST JOB YES <input type="checkbox"/> NO <input type="checkbox"/>
ADDRESS		CONTRACTOR <i>Mobil</i>	LOCATION 1 <i>Mobil</i>		CODE <i>25337</i>
CITY, STATE, ZIP		SHIPPED VIA <i>25337</i>	FREIGHT CHARGES <input type="checkbox"/> FWD <input type="checkbox"/> COLLECT		LOCATION 2
WELL TYPE <i>01</i>	WELL CATEGORY <i>01</i>	WELL PERMIT NO.	DELIVERED TO <i>Loc</i>		CODE
TYPE AND PURPOSE OF JOB <i>010</i>		B- <i>573376</i>	ORDER NO.		REFERRAL LOCATION

In consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price list, however payable not 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 at the highest bank prime rate applicable, but never to exceed 18% per annum, for the period of delinquency necessary to complete an account. Customer agrees to pay all delinquent costs and accept fees in the amount of 20% of the amount of the unpaid account. These rates and conditions shall be governed by the law of the state whose services are performed or proposed to be performed hereunder.

Halliburton warrants only that the products, supplies and materials sold that are items that are used in the production of oil and gas. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR DURABILITY, WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's obligations under any contract or other agreement in connection with the production of oil and gas are limited to the replacement of such products, supplies or materials on their terms at Halliburton or, at Halliburton's option, to the replacement of such items at the cost of such items. In no event shall Halliburton be liable for special, incidental, 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				MILEAGE	25	MIS	1500	25		625.00
21-016				PRODUCERS	1	EA	8	MIS		475.00
930-503				CHI Tool steel	1	EA	5	MIS		90.00
40	807-93059			CONSUMABLES	1	EA	2.5	MIS		62.00

THIS IS NOT AN INVOICE

RECEIVED
STATE CORPORATION COMMISSION
MAR - 3 1992
CONSERVATION DIVISION
Wichita, Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. *B-573376* *406 85*

JOB SATISFACTORILY COMPLETED _____

OPERATION OF EQUIPMENT SATISFACTORY _____

PERFORMANCE OF PERSONNEL SATISFACTORY _____

William Langdon
CUSTOMER OR HIS AGENT (PLEASE PRINT)

CUSTOMER OR HIS AGENT (SIGNATURE)

WE CERTIFY THAT THE BULK LABOR STANDARDS ACT OF 1938, AS AMENDED AND REPEAL COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR SERVICES FURNISHED UNDER THIS CONTRACT.

William Langdon
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

CUSTOMER

ELMS TOTAL
APPLICABLE TAXES WILL BE ADDED ON INVOICE.

JOB LOG

CUSTOMER *M&H Petroleum Inc* PAGE NO.

FORM 2013 R-2 JOB TYPE *5 1/2" Surface* DATE *11-2-91*

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1800							Cut out today
	2030							on loc. SET = p
	2055							Big casing hole
	3134							WALK OFF - CIRCULATE
	2100							Pull out drill pipe
	2115							START TO 21 8 1/2 CSG
	2225							CASING TO HOLE
	2215							Hook to Big mud pump
	2225							Block circulation
								Finish circulation
								Hook to hoses
								CEMENT AS FOLLOWS
	2230	5.0	3.0	-	-	100		PLUG UP STAGE
	2238	5.2	0	-	-	150		START MIXING CEMENT
	2238	5.2	31.6	-	-	200		FINISH MIXING CEMENT
								Release Plug
	2240	5.3	0	-	-	100		START DISPLACEMENT
	2242	5.3	10.7	-	-	145		Plug down
								CEMENT IN 1400' CIRCULATE TO SET TO
	2300							FOUND CEMENT @ 30 FT
	2310							Wait on cement
	0115							Cement on loc
								Run 1" pipe - This cement set
								Hook up
	0130		10.5	-	-			MIX # Pump to 105
								Cement set 105' - SET 105'
	0230							Job complete.

RECEIVED
STATE CORPORATION COMMISSION
MAR - 3 1992
Call Again

CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER

PRIN ORIGINAL

BILLED ON TICKET NO. 175624

WELL DATA

FIELD	SEC	TWP	RNG	COUNTY	STATE			
FORMATION NAME	TYPE		NEW LOGS	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
FORMATION THICKNESS	FROM	TO	CASING	11	155	5 1/2		
INITIAL PROD: OIL	BPD	WATER	BPD	GAS	MGPD	LINER		
PRESENT PROD: OIL	BPD	WATER	BPD	GAS	MGPD	TUBING	11	65
COMPLETION DATE	MUD TYPE	MUD WT.	OPEN HOLE					SHOTS/FT.
PACKER TYPE	SET AT		PERFORATIONS					
BOTTOM HOLE TEMP.	PRESSURE		PERFORATIONS					
MISC. DATA	TOTAL DEPTH		PERFORATIONS					

JOB DATA

CALLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
12-7-91	12-7-91	12-7-91	12-10-91
TIME 7:00	TIME 07:45	TIME 12:15	TIME 15:50

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
J. Winters	63573	APAD KS
D. Shepard	5020	" "
D. Riedel	C1690	APAD KS
C. Thibault	6224	" "

MATERIALS

TREAT. FLUID	DENSITY	LB/GAL API
DISPL. FLUID	DENSITY	LB/GAL API
PROP. TYPE	SIZE	LB
ACID TYPE	GAL	%
ACID TYPE	GAL	%
ACID TYPE	GAL	%
SURFACTANT TYPE	GAL	IN
IR AGENT TYPE	GAL	IN
IR AGENT ADD. TYPE	GAL-LB	IN
SELLING AGENT TYPE	GAL-LB	IN
REC. RED. AGENT TYPE	GAL-LB	IN
WREAKER TYPE	GAL-LB	IN
LOCKING AGENT TYPE	GAL-LB	
ERRPAC BALLS TYPE	QTY.	
OTHER		
OTHER		

DEPARTMENT: ST.02

DESCRIPTION OF JOB: CHEMICAL WASH 100% AMMONIUM

JOB DONE THRU: TUBING CASING ANNULUS THE JANN.

CUSTOMER REPRESENTATIVE: Steve Burdy

HALLIBURTON OPERATOR: J. Winters

COPIES REQUESTED: 1

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIONS	YIELD CU.FT./SK.	MIXED LBS./GAL.

RECEIVED
 STATE CORPORATION COMMISSION

PRESSURES IN PSI

SUMMARY

VOLUMES

INFLUATING DISPLACEMENT	PREFLUSH: BBL/GAL	TYPE
BREAKDOWN MAXIMUM	LOAD & BRON: BBL/GAL	PAD: BBL/GAL
AVERAGE FRACTURE GRADIENT	TREATMENT: BBL/GAL	DISPL: BBL/GAL
HYP IN INSTANT 5-MIN 15-MIN	CEMENT SLURRY: BBL/GAL	TOTAL VOLUME: BBL/GAL
HYDRAULIC HORSEPOWER	REMARKS	
OVERHEAD AVAILABLE AVERAGE RATES IN BPM	JOB: Tub log	
HEATING DISPL. CEMENT LEFT IN PIPE	THANKS	
NET REASON		

MAR - 5 1992

CONSERVATION DIVISION
 Wichita, Kansas

CUSTOMER: DALLAS
 DATE: 12-7-91
 WELL NO.: 11-11-91

JOB LOG

CUSTOMER MACH. PETROLEUM PAGE NO. 1

TICKET NO. 17152

FORM 2013 R-2

JOB TYPE WATER INJ. ORIGINAL DATE 12-9-91

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							JOB READY
	1200							CALLED OUT FOR JOB
	1245							PUMP TRUCK ON LOCATION RIG MOVING TBC TO LOCATION TO RUN IN HOLE / SET UP PUMP TRUCK TBC ON BOTTOM 1000' + 1
	1245							HOOK UP TO 3 1/2" TBC + ANNULUS
	1215	1						START PUMPING TBC AT 1 BPM
	1221		6	✓	✓	50	50	DOWN TBC TO CLEAN TBC + ANNULUS
								START PUMPING SALT WATER BEHIND ACID, DISPLACE ACID UP ANNULUS / & INCREASE RATE TO 5 BPM + CIRCULATE ACID TO P.T
		5					380	MAKE SCHEDULE PUMPED C. COUNTING ACID TO SURFACE
			100	✓	✓			PUMP 100 GALS SALT WATER BEHIND ACID
	1250							SHUT DOWN JOB COMPLETE
	1335							ON LOC - 12-10-91
	1353						500	PRESSURE UP ANNULUS
	1415					2500		PRESSURE TEST ABOVE ZONE
	1446	5.0	0	✓	✓	100		START PUMPING ACID
		5.0	2.6	✓	✓	100		START DROPPING BALL
		5.0	23.3	✓	✓	1300		ACID ON BOTTOM
		5.0	25.9	✓	✓	1300		RECEIVED PERMITS
		5.0	47.6	✓	✓	1400		STATE CORPORATION COMMISSION Permit Pumping Acid w/ Balls - Start Dec 1991
		5.0	0			1500		START 1992 50% GOOD BALL ACTION
		3 1/2	21.0	✓	✓	1700		
	1500	3 1/2	22.0	✓	✓	2500		CONSERVATION DIVISION Denita, Texas
	1501							RELEASE PRESSURE
	1550							JOB COMPLETE
								THANK YOU, MUI AGARD 1-20-92

CUSTOMER



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ORIGINAL

FORM 1908 R-1

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 173222

DISTRICT OPAT KS

DATE 12-9-91

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: MARCO OILFIELD (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE HANSAFIELD SEC. 21 TWP. 255 RANGE 9

FIELD _____ COUNTY DEW STATE KS OWNED BY _____

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

Table with columns: FORMATION NAME, TYPE, THICKNESS, FROM, TO, PACKER TYPE, SET AT, TOTAL DEPTH, MUD WEIGHT, BORE HOLE, INITIAL PROD, PRESENT PROD, PERFORATIONS. Includes data for CASING, LINER, TUBING, and OPEN HOLE.

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

11-10-91 with 2000 lbs. annulus with 200 gal. 2-1/2" HPG - HPGIC

12-11-91 - 7 day test w/ 2000 gal. HPGIC w/ 200 lbs. HPGIC

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

As consideration, the above-named Customer agrees:

- (a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists.
(b) Halliburton shall not be responsible for and Customer shall secure Halliburton against any liability for damage to property of Customer and of the well owner...
(c) Customer shall be responsible for and secure Halliburton against any liability for reservoir loss or damage, or property damage resulting from subsurface pressure...
(d) Customer shall be responsible for and secure Halliburton against any and all liability of whatsoever nature for damages as a result of subsurface trespass...
(e) Customer shall be responsible for and secure Halliburton against any liability for injury to or death of persons, other than employees of Halliburton...
(f) Halliburton makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or service.
(g) Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well...
(h) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others...
(i) Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials.
(j) Invoices payable NET by the 20th of the following month after date of invoice.
(k) This contract shall be governed by the law of the state where services are performed...
(l) Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing...

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED Steve Bandy CUSTOMER
DATE 12-9-91

TIME _____ A.M. P.M.

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

CUSTOMER