

ORIGINAL
SIDE ONE

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

API NO. 15-163-23,171 0000

County: Rooks East
SE SW NE NW Sec. 17 Twp. 8S Rge. 18 West

Operator: License # 30722

330 Ft. North from Southeast Corner of Section

Name: Edwin C. Schuett & Sharp Eng.

2970 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Address 1616 Glenarm Place, Ste. 1804

Lease Name Hertel Well # 1

City/State/Zip Denver, CO 80202

Field Name Sweet Southeast

Purchaser: Farmland Industries

Producing Formation Arbuckle

Operator Contact Person: Edwin C. Schuett

Elevation: Ground 2009' KB 2014'

Phone (303) -825-6005

Total Depth 3500' PBDT 3470'

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Ed Schuett STATE CORP

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd. CONSERV

Gas Inj Delayed Comp. WICHITA, KANSAS

Dry Other (Core, Water Supply, etc.)

If OMO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

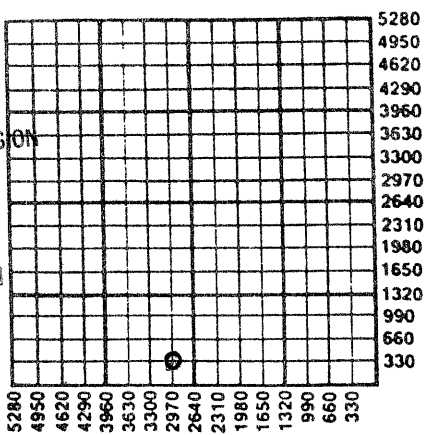
Drilling Method:

Mud Rotary Air Rotary Cable

6/20/91 6/26/91 7-15-91

Spud Date Date Reached TD Completion Date

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Amount of Surface Pipe Set and Cemented at 212 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1476' (DV Tool) Feet

If Alternate II completion, cement circulated from 1476

feet depth to 0 w/ 300 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.

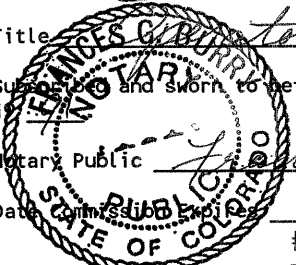
Signature Edwin C. Schuett

Title Operator Date 9-15-91

Subscribed and sworn to before me this 16th day of September

Notary Public John B. Barry

Date 6-28-94



#1800 - 1616 Glenarm Pl.,
Denver, CO 80202-4322

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Drillers Timelog Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep <input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other (Specify)

SIDE TWO

Operator Name Edwin C. Schuett & Sharp Eng. Lease Name Hertel Well # 1

Sec. 17 Twp. 8S Rge. 18 East West
 County Rooks

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

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

DST #1 3320-3410. 15-45-30-60
 rec 5' O & 25' MCO. FP 57-55,
 54-54; SIP 1002-950.

DST #2 3440-3462. 15-60-30-60
 rec 290' O & 20' MCO. FP 49-49,
 69-79; SIP 916-867.

Formation Description		
Name	Top	Bottom
Stone Corral	1405	1440
Topeka	2935	
Heebner Shale	2935	
Toronto	3165	
Lansing	3185	
Kansas City		3405
Arbuckle	3438	

CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface		8 5/8		212	poz	135	2%gel, 3%CaCl
Production	7 7/8	4 1/2		3498	poz	156	10%NaCl, 3%Hal
cmtd 2nd stage w/ 200 sxs Hal lite, 2%CaCl, 4pps flocele & add 322, 5pps							
100 sxs poz, 2%CaCl & 1/2pps flocele gilsonite							

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
Shots Per Foot	Specify Footage of Each Interval Perforated	Depth	
2	3445-3452; 3456-64	1500 g	15% MCA
		4000 g	15% SGA

TUBING RECORD Size 2 3/8" Set At 3459 Packer At _____ Liner Run Yes No

Date of First Production 7-11-91 Producing Method Flowing Pumping Gas Lift Other (Explain) _____
 Estimated Production Per 24 Hours Oil 20 Bbls. Gas _____ Mcf Water 120 Bbls. Gas-Oil Ratio 29 Gravity _____

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

Phone 913-483-2627, Russell, Kansas

Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

ORIGINAL
NEW

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

№ 2130

Date	6-17-91	Sec.	17	Twp.	8	Range	18	Called Out		On Location	9:45 PM	Job Start		Finish	11:30 PM
Lease	Hertel	Well No.	1	Location	Plainville	6N-3 1/2 W-2N		County	Rooks	State	Kan				
Contractor	Emphasis Oil Operations #8														
Type Job	Surface														
Hole Size	12 1/4	T.D.	214'												
Csg.	R 5/8	Depth	212'												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.	15'	Shoe Joint													
Press Max.		Minimum													
Meas Line		Displace	✓												
Perf.															

Owner 'BE

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Emphasis Oil Operations

Street

City **State**

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.
X Jack D. Fox

EQUIPMENT

Pumptrk	153	No.	Cementer	Walt Gerald
			Helper	
Pumptrk		No.	Cementer	Jason
			Helper	
Bulktrk	160		Driver	
Bulktrk			Driver	

CEMENT

Amount Ordered 135 60% poz, 3% cc - 2% cel

Consisting of

Common	
Poz. Mix	
Gel.	
Chloride	
Quickset	

Handling 1.00 per sk

Mileage 4¢ per sk/mile

Sales Tax

Sub Total

Total

DEPTH of Job

Reference:	Pumptruck	
	8 5/8 Wooden Plus	
	2.00 per mile	
	Sub Total	
	Tax	
	Total	

Remarks:
Cement Did Circ

RECEIVED
STATE CORPORATION COMMISSION

SEP 18 1991

CONSERVATION DIVISION
Wichita, Kansas

Handwritten signature

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

-TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

-ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees:

-PRICES AND TAXES: All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

-TOWING CHARGES: ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

-PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

-DEADHAUL CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

-SERVICE CONDITIONS AND LIABILITIES: 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the wilful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

HALLIBURTON SERVICES

Duncan, Oklahoma 73858

A Division of Halliburton Company

TICKET

NO. 103888-4

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME 1 Her tel		COUNTY Rooks	STATE KS	CITY / OFFSHORE LOCATION	DATE 6-25-91
CHARGE TO Sharp Engineering		OWNER Same		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 Emphasis R11 27		LOCATION 1 Nowls, KS	CODE 25525
CITY, STATE, ZIP		SHIPPED VIA CO TIKS	FREIGHT CHARGES PPD <input type="checkbox"/> COLLECT <input type="checkbox"/>	LOCATION 2	CODE
WELL TYPE D1	WELL CATEGORY 02	WELL PERMIT NO.	DELIVERED TO LOC NW PULLO	LOCATION 3	CODE
TYPE AND PURPOSE OF JOB 035		ORDER NO. B-904232		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.	LOC.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117		1		MILEAGE # 51143	11	mi			2.60	28.60
007-013	001-016	1		Pump chg 1st stage	3998	ft				1185.00
007-141		1		Pump chg 2nd stage	1	ea				1025.00
017-317		1		super flush	12	bags			87.00	1044.00
26	847.6316	1		Insert Foot Valve She	1	ea		4 1/2 in		237.00
27	815.19111	1		Fill up unit	1	ea		1 in		27.50
71	813.80100	1		Multi stage cmti.	1	ea		2 1/2 in		2179.00
75	812.0112	1		Free Fall Plug set	1	ea		1 1/2 in		393.00
40	802.93004	1		S-4 Centralizer	8	ea		5 1/2 in	43.00	344.00
320	800.8831	1		Cost. Basket	1	ea		5 1/2 in		85.00

NOT AN INVOICE

RECEIVED
STATE CORPORATION COMMISSION
SEP 18 1991
CONSERVATION DIVISION
Wichita, Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B-904232

4,111.85

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

CUSTOMER OR HIS AGENT (PLEASE PRINT)

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.

Kenneth J. Patman
HALLIBURTON OPERATOR

Gary Sharp
CUSTOMER

HALLIBURTON APPROVAL

SUB TOTAL
APPLICABLE TAXES WILL BE ADDED ON INVOICE.



HALLIBURTON SERVICES

Dallas, Oklahoma 75201

A Division of Halliburton Company

BULK MATERIALS DELIVERY AND TICKET CONTINUATION

FOR INVOICE AND TICKET NO.

DATE 6-25-91	CUSTOMER ORDER NO.	WELL NO. AND FARM Hertel #1	COUNTY ooks	STATE Kansas
CHARGE TO Sharp Engineering		OWNER Same	CONTRACTOR Emphasis Drilling No. B 904232	
MAILING ADDRESS		DELIVERED FROM Hays, Ks	LOCATION CODE 25525	PREPARED BY Kuhn
CITY & STATE		DELIVERED TO N/W Plainville, Ks	TRUCK NO. 3703 0530	RECEIVED BY

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT		
				QTY.	MEAS.	QTY.	MEAS.				
504-316		1B	Halliburton Light Cement	200				5.21	1,042	00	
250Cu. Ft. Poznix Cement											
504-308	516.00261	1B	Standard Cement	150				5.45	817	50	
506-105	516.00286	1B	Poznix 'A'	100				3.00	300	00	
506-121	516.00259	1B	4sk Halliburton Gal							a/c	
509-406	890.50812	1B	Calcium Xchloride Blended	5				26.25	131	25	
509-968	516.00315	1B	Salt Blended	718	1b			.10	71	80	
507-210	890.50071	1B	Flocele Blended	50	1b			1.30	65	00	
507-775	516.00144	1B	Halad-322 Blended	95	1b			6.15	584	25	
508-291	70.15573	1B	Gilsonite Blended	750	1b			.47	352	50	
THIS IS NOT AN INVOICE											
RECEIVED COMMISSION SEP 18 1991											
		Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES						
		SERVICE CHARGE ON MATERIALS RETURNED					CU. FEET				
500-207		1B	SERVICE CHARGE				688	1.15	561	20	
500-306		1B	Mileage Charge	42,353	11		232,942	.80	186	35	
No. B904232		CARRY FORWARD TO INVOICE					SUB-TOTAL		4,111 85		

JOB LOG

WELL NO. 1 LEASE (Herte) TICKET NO. 103887

CUSTOMER Sharp Engineering PAGE NO. 1

JOB TYPE 2 Stage Long String DATE 6-25-91

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
6-25	0920							Called out to cmt 2 stage 4 1/2" casing w/ 150 SKS 60/40 por 2 1/2 gal 10% salt 3 1/2 Na 322 5# pills/str (2nd stage)
	2000							on loc rig pulling DP DP. Layed down
	2230							ST. Casing 4 1/2" 10.5# Fract shae Plug stop on top of shoe at @ 3458' cmt. 12' sec 5' 7 1/2 9 1/2 11 1/2 13 1/2 50" DU on 49th collar @ 1476" Basket on bot 1476" Jt.
	2350							Drop ball to knock out Auto fill tube Casing to TD @ 3500'
	2359							HOOK UP & CIR
6-26	0001							400 Knock out Auto fill Tube CIR well & Rotate Casing
	0030							250 Hook up to pump TRU ST. 500 gal super flush w/ 150 SKS 60/40 por 2 1/2 gal 10% salt 3 1/2 Na 322 5# pill/str
	0044		36					100 cmt. mixed wash pump line of plug Ret hole, Ret plug & ST. Displ
	0147							ST. Displ Ret hole
	0159		56					900 Ldg plug @ 3458' Ret (SK) & float hold
	0103							Drop Free Fall plug, to open DU @ 1476'
	0105							
	0116							1100 Open DU & pump 36 bbl mixed Sp. mix 200 SKS Hic 2" acc 1/2" 500/40 + 100 SKS 60/40 por 2 1/2 gal 2" acc -
	0133		65.5 22.6					cmt. mixed, pump 1/2 bbl water Ret plug & ST displ.
	0157							Ldg plug @ 1456' CIR cmt to PIT
			23					

RECEIVED STATE COMMISSION

SEP 18 1991

CUSTOMER

WELL LOCATION

HAYS, KS

BILLED ON TICKET NO. 103988

WELL DATA

FIELD _____ SEC. _____ TWP. _____ RNG. _____ COUNTY ROCKS 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						
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-25-91</u>	DATE <u>6-25-91</u>	DATE _____	DATE _____
TIME <u>0920</u>	TIME <u>2000</u>	TIME _____	TIME _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>K. Richmeier</u>	<u>5/143</u>	<u>HAYS, KS</u>
<u>L. DIOKAL</u>	<u>CONTR</u>	<u>"</u>
<u>P.</u>	<u>BULK CONT</u>	<u>"</u>
<u>S.</u>	<u>BULK CONT</u>	<u>"</u>

TOOLS AND ACCESSORIES

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

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 _____

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

BREAKER TYPE _____ GAL-LB _____ IN _____

BLOCKING AGENT TYPE _____ GAL-LB _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT CONTR

DESCRIPTION OF JOB CONTR

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X Gary Sharp

HALLIBURTON OPERATOR Kem Richman COPIES REQUESTED _____

CEMENT DATA

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

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

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

ORDERED _____ AVAILABLE _____ USED _____

HYDRAULIC HORSEPOWER _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

SUMMARY

VOLUMES

PRESLUSH: BBL-GAL _____ TYPE _____

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

TREATMENT: BBL-GAL _____ DISPL: BBL-GAL _____

CEMENT SLURRY: BBL-GAL _____

TOTAL VOLUME: BBL-GAL _____

REMARKS

SEP 18 1991

DIVISION

CUSTOMER: Sharp Engineering
LEASE: HAYES
WELL NO: 1
JOB TYPE: 25 Stage 1 string date 6-25-91