

SIDE TWO

Operator Name N-B Company, Inc. Lease Name Pittman 'A' Well # 1
 Sec. 20 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.) 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)	<p style="text-align: center;">Formation Description</p> <p><input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Bottom</th> </tr> </thead> <tbody> <tr> <td>Heebner</td> <td>3161</td> <td></td> </tr> <tr> <td>Toronto</td> <td>3183</td> <td></td> </tr> <tr> <td>Lansing</td> <td>3202</td> <td></td> </tr> <tr> <td>Base Kansas City</td> <td>3418</td> <td></td> </tr> <tr> <td>Arbuckle</td> <td>3451</td> <td></td> </tr> </tbody> </table>	Name	Top	Bottom	Heebner	3161		Toronto	3183		Lansing	3202		Base Kansas City	3418		Arbuckle	3451	
Name	Top	Bottom																	
Heebner	3161																		
Toronto	3183																		
Lansing	3202																		
Base Kansas City	3418																		
Arbuckle	3451																		

CASING RECORD <input checked="" 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
Production	7.875"	4.5"	10.5	3457	posmix	150	10% salt, .75 CFR2, 5 pps gil
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			Depth			
4	1470			Cmtd w/ 200 sxs Hal			
3	3391-95'			light & 100 sxs 60-40 Posmix			
3	3413-16'			500 gal. 15% NE followed by			
open hole	3457-3468'			1000 gal. 15% SGA			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Size		Set At		Packer At	
3-4-91		2 3/8"		3453			
Date of First Production		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.	Gas	Mcf	Water	Bbls. Gas-Oil Ratio Gravity
		50				2	34°

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 _____

15-163-23137-00-00

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	PITMAN A #1	Test No.	1	Date	1/26/91
Company	N & B COMPANY & SCHUETT			Zone Tested TORONTO-LANS	
Address	P.O. BOX 506 RUSSELL KS 67665			Elevation 2025 GL	
Co. Rep./Geo.	MR ED SCHUETT	Cont.	EMPHASIS RIG #9	Est. Ft. of Pay 0	
Location: Sec.	20	Twp.	8S	Rge.	18W
				Co.	ROOKS
				State	KANSAS

Interval Tested	3170-3250	Drill Pipe Size	4.5" XH
Anchor Length	80	Top Choke - 1"	Bottom Choke - 3/4"
Top Packer Depth	3165	Hole Size - 7 7/8"	Rubber Size - 6 3/4"
Bottom Packer Depth	3170	Wt. Pipe I.D. - 2.7 Ft. Run	0
Total Depth	3250	Drill Collar - 2.25 Ft. Run	0
Mud Wt.	8.8 lb/gal.	Viscosity	46
		Filtrate	7.6

Tool Open @ 1:11 PM Initial Blow FAIR BLOW BUILDING TO 6" - BLED 2" FOR 5 MIN-1 MIN WEAK SURFACE BLOW BACK & DIED

Final Blow VERY WEAK SURFACE BLOW 1" IN BUCKET-BLED 2" FOR 5 MINUTES-VERY WEAK SURFACE BLOW BACK

Recovery - Total Feet	62	Flush Tool?	
Rec.	62	Feet of	SLTLY OIL STAINED MUD-1%OIL/99%MUD
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	

BHT	101 °F	Gravity		°API @	0	°F	Corrected Gravity	0	°API
RW	@	°F	Chlorides	ppm	Recovery	Chlorides	ppm	System	
(A) Initial Hydrostatic Mud	1544.6	PSI	AK1 Recorder No.	13277	Range	4125			
(B) First Initial Flow Pressure	83.1	PSI	@ (depth)	3172	w/Clock No.	17652			
(C) First Final Flow Pressure	83.1	PSI	AK1 Recorder No.	24174	Range	3350			
(D) Initial Shut-In Pressure	1051.2	PSI	@ (depth)	3247	w/Clock No.	27501			
(E) Second Initial Flow Pressure	101.2	PSI	AK1 Recorder No.	0	Range	0			
(F) Second Final Flow Pressure	84.3	PSI	@ (depth)	0	w/Clock No.	0			
(G) Final Shut-In Pressure	1012.6	PSI	Initial Opening	30					
(H) Final Hydrostatic Mud	1510.2	PSI	Initial Shut-In	45					
			Final Flow	60					
			Final Shut-In	60					

RECEIVED
STATE CORPORATION COMMISSION
STATE CORPORATION
MAY 21 1991
5/21/1991
CONSERVATION DIVISION
Wichita, Kansas

MR RUGER SELLS

550

Our Representative _____

TOTAL PRICE \$ _____

15-163-23137-00-00

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. <u>PITTMAN A #1</u>	Test No. <u>2</u>	Date <u>1/27/91</u>
Company <u>N & B COMPANY & SCHUETT</u>	Zone Tested <u>ARBUCKLE</u>	
Address <u>P.O. BOX 506 RUSSELL KS 67665</u>	Elevation <u>2025 GL</u>	
Co. Rep./Geo. <u>MR ED SCHUETT</u>	Cont. <u>EMPHASIS RIG #9</u>	Est. Ft. of Pay <u>0</u>
Location: Sec. <u>20</u>	Twp. <u>8S</u>	Rge. <u>18W</u> Co. <u>ROOKS</u> State <u>KANSAS</u>

Interval Tested <u>3455-3468</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>13</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3450</u>	Hole Size — 77/8" _____ Rubber Size — 63/4" _____
Bottom Packer Depth <u>3455</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>0</u>
Total Depth <u>3468</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>9.1</u> lb/gal.	Viscosity <u>48</u> Filtrate <u>9.6</u>

Tool Open @ 3:24 PM Initial Blow FAIR BLOW BUILDING TO 12"—BLED 2" FOR 5 MINUTES—WEAK SURFACE BLOW BACK 32 MINUTES IN & DYING RIGHT AWAY

Final Blow VERY WEAK 1/2" BLOW BUILDING TO 12"—BLED 2" FOR 5 MIN—NO BLOW BACK

Recovery — Total Feet 120 Flush Tool? _____

Rec. <u>40</u> Feet of <u>CLEAN OIL</u>
Rec. <u>60</u> Feet of <u>OIL CUT MUD—40%OIL/60%MUD</u>
Rec. <u>20</u> Feet of <u>OIL CUT MUD—10%OIL/90%MUD</u>
Rec. <u>0</u> Feet of _____
Rec. <u>0</u> Feet of _____

BHT 102 °F Gravity 31 °API @ 70 °F Corrected Gravity 30 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides N/A ppm System

(A) Initial Hydrostatic Mud <u>1721.3</u> PSI	AK1 Recorder No. <u>13277</u> Range <u>4125</u>
(B) First Initial Flow Pressure <u>51.2</u> PSI	@ (depth) <u>3457</u> w/Clock No. <u>17652</u>
(C) First Final Flow Pressure <u>51.2</u> PSI	AK1 Recorder No. <u>24174</u> Range <u>3350</u>
(D) Initial Shut-In Pressure <u>855.6</u> PSI	@ (depth) <u>3465</u> w/Clock No. <u>27501</u>
(E) Second Initial Flow Pressure <u>70.4</u> PSI	AK1 Recorder No. <u>0</u> Range <u>0</u>
(F) Second Final Flow Pressure <u>70.4</u> PSI	@ (depth) <u>0</u> w/Clock No. <u>0</u>
(G) Final Shut-In Pressure <u>799.6</u> PSI	Initial Opening <u>30</u>
(H) Final Hydrostatic Mud <u>1699.3</u> PSI	Initial Shut-In <u>45</u>

Final Flow 60
Final Shut-In 60

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Wichita, Kansas

MR. ROGER SELLS

550

Our Representative _____

TOTAL PRICE \$ _____

15-163-23137-00-00

EMPHASIS OIL OPERATIONS
P. O. BOX 506
RUSSELL, KS 67665

change of operation to Shaw Engineering
DRILLERS LOG

OPERATOR: N-B Company, Inc.
P. O. Box 506
Russell, KS 67665-0506

CONTRACTOR: Emphasis Oil Operations
Box 506
Russell, KS 67665

LEASE: Pittman 'A' WELL #1

LOCATION: C NW NW NE
Section 20-8S-18W
Rooks County, Kansas

LOGGERS TOTAL DEPTH: 3462'

ROTARY TOTAL DEPTH: 3468'

COMMENCED: 1/22/91

CASING: 8-5/8" @ 220' w/140 sks cement
4-1/2" @ 3457' w/165 sks cement

ELEVATION: 2030' K.B.

COMPLETED: 1/28/91

STATUS: Oil Well

DEPTHS & FORMATIONS

(All measurements from K.B.)

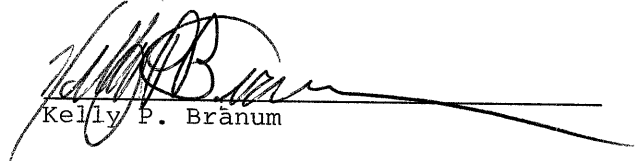
Dakota Sand	565'	Heebner	3162'
Shale	685'	Toronto	3186'
Cedar Hill	910'	Lansing-Kansas City	3202'
Shale	1126'	Base Kansas City	3141'
Anhydrite	1405'	Arbuckle	3453'
Shale	1446'	R.T.D	3468'
Topeka	2951'		

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5/21/1991
CONSERVATION DIVISION
Wichita, Kansas

STATE OF KANSAS)
) ss
COUNTY OF RUSSELL)

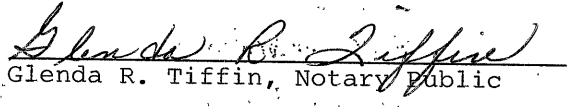
Kelly P. Branum, of Emphasis Oil Operations, states that the above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.


Kelly P. Branum

Subscribed and sworn to before me on January 29, 1991.

My commission expires: February 6, 1992.

GLEND A. R. TIFFIN
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 2-6-92


Glenda R. Tiffin, Notary Public

JOB LOG

WELL NO. 111111 LEASE 111111 TICKET NO. 080275
 CUSTOMER SLIPPER 660051 PAGE NO. 1
 JOB TYPE SQUEEZE DATE 2-21-91

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1500							ON LOC SET UP EQUIP & PLAN JOB LSP SET @ 1500'
	1520							4 1/2 COMP PKR SET @ 1476' ON 2 3/8" TSBG
	1525					500		HOOK UP TO T3C PRESSURE TEST TSBG & TOOLS TEST GOOD SET PKR @ 1400' TO SQUEEZE PERS 4 HOLE @ 1470'
						500		LOAD & PRESSURE ANN - TEST GOOD CLOSE IN ANN
		2	4	H ₂ O		500		ESTABLISH INJECTION RATE 2 BBL/MIN @ 600 PSI GET BLOW FROM SURFACE CASING HEAD
	1545					600		START MIX CMT 200 SKS 11CC W/ 2% CC & 1/4" FLOCCEL 100 SKS 60/40 PZ 2% GEL 2% CC
			65 cmt 19 cmt			750		GET CMT RETURNS TO SURFACE CIRC APPROX 1000' & THEN 2" LINE
	1608					850		PLUG UP - SQUEEZE REST CMT INTO WELL @ 1 1/2 BBL/MIN AVE PRESSURE 700-750 PSI
	1630					750		FINISH MIX CMT - CLOSE IN TSBG WASH OUT PUMP & LINE
			5 1/2	H ₂ O				OPEN TSBG - DISP TSBG STOP W/ 5 1/4 BBL DISP - REACHED MAX PRESSURE 1000 PSI CLOSE TSBG WASH UP P.T.
	1700					600 400		OPEN TSBG DISP 1/4 BBL PRESSURE MOVE 1/4 BBL PRESSURE TO
	1730					200		RELEASE PRESSURE TO TRK DRIES UP RELEASE PKR & REVERSE OUT T3C KNOCK LOOSE PAL 2STS
	1740					200		SET PKR PRESSURE SQUEEZE TO 200 PSI & CLOSE IN RIG TO DRILL CMT SAT ANN.

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5/28/1991
MAY 28 1991
CONSERVATION DIVISION
Wichita, Kansas

MEL CHILBERS
ALAN GABEL D. WELL BRUCK

CUSTOMER

080275
2-21-91

DISTRICT AN-15

DATE 2-21-91

TO: HALLIBURTON SERVICES

YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: GEODESSA Fire Sharp Engineering (CUSTOMER)
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE PITMAN SEC. TWP. RANGE

FIELD COUNTY ROCKS STATE KS OWNED BY JAME

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			<u>4 1/2</u>		<u>1500</u>	<u>P8TD 4 C18</u>
PACKER TYPE	SET AT						
TOTAL DEPTH	MUD WEIGHT			<u>2 3/4</u>			
BORE HOLE							SHOTS/FT.
INITIAL PROD.	OIL BPD H ₂ O BPD GAS MCF				<u>1470</u>		
PRESENT PROD.	OIL BPD H ₂ O BPD GAS MCF						

PREVIOUS TREATMENT: DATE TYPE MATERIALS

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

SQUEEZE PERFS W/ 200 SKS HLC W/ 240CC & 1/4 FLUID 15K
100 SKS 64HO PWD 240CC 240CC

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, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 1. 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.
 2. Reservoir, formation or well loss or damage, subsurface trespass or any action in the nature thereof.
 3. 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.

- 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 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 in writing signed by a duly authorized executive officer of Halliburton.

RECEIVED
STATE COMMISSION
MAY 28 1991
5/28/1991

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

CONSERVATION DIVISION
Wichita, Kansas
CUSTOMER

DATE 2/21/91
TIME 3:15 A.M. (P.M.)

JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

OKLAHOMA CITY 15-163-23137-00-00
HAYS
BILLED ON TICKET NO. 080-75

WELL DATA

FIELD _____ SEC. _____ TWP. _____ RNG. _____ COUNTY Rooks 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 1/2		1500	CIBP
LINER						
TUBING			2 3/4			
OPEN HOLE						SHOTS/FT.
PERFORATIONS					1470	4/166
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
2-26-91	2-21-91	2-26-91	2-27-91
TIME 1200	TIME 1500	TIME 1520	TIME

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
M. CHILDELS		
A. GABEL	3472 P.I.	HAYS, KS
D. WELL BROCK	57252 B.T.	HAYS, KS

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. 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 _____

DEPARTMENT CEMENT

DESCRIPTION OF JOB SQUEEZE PERES

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X Clay Sharp

HALLIBURTON OPERATOR Melvin C. Chelmer COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	200	MHC	11		B	2%CC 1/4" FLOCELE/CK	1.89	12.7
	100	60440	A	PVZ	B	2%GEL 2%CC	1.09	15.1

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. _____

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

HYDRAULIC HORSEPOWER _____ STATE CORPORATION COMMISSION VOLUME: BBL.-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____ REMARKS 2x 30B WGS

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

RECEIVED
MAY 28 1991
5/28/1991
CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER
 GEDDESSA
 LEAR
 PITTMAN
 WELL NO.
 JOB TYPE
 DATE 2-21-91
 504222

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

15-163-23137-00-00
 Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. No. 9293

Home Office P. O. Box 31 Russell, Kansas 67665

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
1-22-91	20	8	18	9:00 PM	10:30 PM	11:45 AM	12:30 PM
Lease # 77MAN		Well No. "A" # 1		Location Plainville 6N33E2N5E4R		County	State
				KROOKS		KANSAS	

Contractor EMERSONS OIL OPERATIONS RIG 9	
Type Job Surface	
Hole Size 12 1/4"	T.D. 224'
Csg. 8 3/8"	Depth 220'
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Depth
Cement Left in Csg. 15'	Shoe Joint
Press Max.	Minimum
Meas Line	Displace
Perf.	

Owner SAM
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 N x B Oil Co
Street
City
State
The above was done to satisfaction and supervision of owner agent or contractor.
Purchase Order No.
<input checked="" type="checkbox"/> Sub

EQUIPMENT

#177 No.	Cementer	M Kaufman
Pumptrk	Helper	Will H.
No.	Cementer	
Pumptrk	Helper	
#213	Driver	SIM D
Bulktrk		
Bulktrk	Driver	

CEMENT	
Amount Ordered	140 SLS 60/40 P&Z 3800 250 101
Consisting of	
Common	
Poz. Mix	
Gel.	
Chloride	
Quickset	
Sales Tax	

DEPTH of Job	
Reference:	DUMP TANK
	1-22-91 Plug
	Sub Total
	Tax
	Total

Handling	
Mileage	
RECEIVED STATE CONSERVATION COMMISSION STATE OF KANSAS MAY 21 1991 5/21/1991 CONSERVATION DIVISION Wichita, Kansas	
	Sub Total
	Total
Floating Equipment	

Remarks: **Cement circulated**

[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 willful 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.

