

ORIGINAL

SIDE ONE

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

Operator: License # 5020
Name: Rine Exploration Company
Address 300 W. Douglas, Suite #645
City/State/Zip Wichita, KS 67202-2904
Purchaser: N/A
Operator Contact Person: M. Bradford Rine
Phone (316) 262-5418

Contractor: Name: Abercrombie Drilling, Inc.
License: 5422
Wellsite Geologist: Tom N. McElroy

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

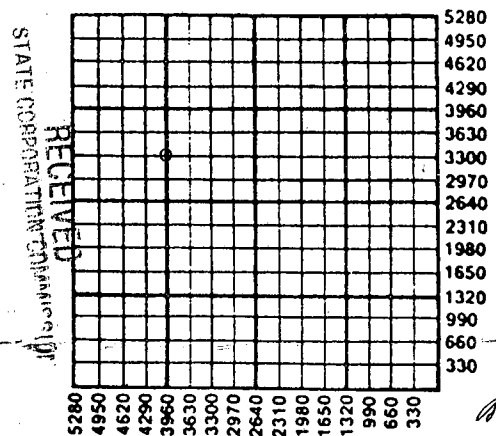
If **OWMO**: old well info as follows:
Operator: N/A
Well Name: _____
Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable
02/21/90 02/27/90
Spud Date Date Reached TD Completion Date

API NO. 15- 179-20,956-0660
County Sheridan
C S 1 NW 1 Sec. 17 Twp. 10S Rge. 26W XX East West
3300 Ft. North from Southeast Corner of Section
3960 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)
Lease Name Johnson Well # 2-17
Field Name Tilton NE - Revival
Producing Formation N/A
Elevation: Ground 2630 KB 2635
Total Depth 4175' PBD _____

CONSERVATION DIVISION
Wichita, Kansas

MAR 29 1990



Amount of Surface Pipe Set and Cemented at 319 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 319'
feet depth to surface w/ 200 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 M. Bradford Rine
(M. Bradford Rine)
Title President Date 03/28/90

Subscribed and sworn to before me this 28th day of March, 19 90.

Notary Public Ginger L. Kelley
(Ginger L. Kelley)
Date Commission Expires June 11, 1992



K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

SIDE TWO

Operator Name Rine Exploration Company Lease Name Johnson Well # 2-17

Sec. 17 Twp. 10S Rge. 26W East West
 County Sheridan

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 checked="" type="checkbox"/> Yes <input 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.) DST #1: 3896'-3930' (Lansing B-C) 30-60-45-90. Blow: weak building to mild. Rec: 60' gas in pipe, 2' free oil, 18' oil cut mud. IFP 33 - 33 ISIP 1089 FFP 33 - 33 FSIP 980	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">Formation Description</th> </tr> <tr> <th style="width:60%;"></th> <th style="width:20%; text-align: center;">Top</th> <th style="width:20%; text-align: center;">Bottom</th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;"><input checked="" type="checkbox"/> Log</td> <td style="text-align: center;"><input checked="" type="checkbox"/> Sample</td> </tr> <tr> <td style="text-align: center;">Name</td> <td style="text-align: center;">SAMPLE TOPS</td> <td style="text-align: center;">E-LOG TOPS</td> </tr> <tr> <td>Anhydrite</td> <td style="text-align: center;">2265 + 370</td> <td style="text-align: center;">2263 + 372</td> </tr> <tr> <td>Base Anhydrite</td> <td style="text-align: center;">2300 + 335</td> <td style="text-align: center;">2298 + 337</td> </tr> <tr> <td>Heebner</td> <td style="text-align: center;">3842 -1207</td> <td style="text-align: center;">3840 -1205</td> </tr> <tr> <td>Lansing</td> <td style="text-align: center;">3884 -1249</td> <td style="text-align: center;">3879 -1244</td> </tr> <tr> <td>Lansing "B"</td> <td style="text-align: center;">3912 -1277</td> <td></td> </tr> <tr> <td>Stark</td> <td></td> <td style="text-align: center;">4070 -1435</td> </tr> <tr> <td>BKC</td> <td style="text-align: center;">4126 -1491</td> <td style="text-align: center;">4110 -1475</td> </tr> <tr> <td>Total Depth</td> <td style="text-align: center;">4175 -1540</td> <td style="text-align: center;">4174 -1539</td> </tr> </tbody> </table>	Formation Description				Top	Bottom		<input checked="" type="checkbox"/> Log	<input checked="" type="checkbox"/> Sample	Name	SAMPLE TOPS	E-LOG TOPS	Anhydrite	2265 + 370	2263 + 372	Base Anhydrite	2300 + 335	2298 + 337	Heebner	3842 -1207	3840 -1205	Lansing	3884 -1249	3879 -1244	Lansing "B"	3912 -1277		Stark		4070 -1435	BKC	4126 -1491	4110 -1475	Total Depth	4175 -1540	4174 -1539
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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"	24# Limited Service	319'	60/40 Poz	200	3% cc, 2% gel
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)			Depth
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
	Size	Set At	Packer At				
Date of First Production		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
Estimated Production Per 24 Hours		Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

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

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled

Other (Specify) _____

Production Interval _____

ORIGINAL

COMPANY Rine Exploration

FARM Johnson

WELL NO. 2-17

SEC. TWP. RGE. LOC.

COUNTY Sheridan

STATE Kc

CONTRACTOR Abercrambie Drilling

SIZE HOLE 9 7/8

DRILL PIPE 4 1/2 x 14

REMARKS:

SIZE PUMP LINERS 6 LENGTH STROKE 15

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2200	3:24	4	com 2205
05	3:28	4	
10	3:35	4	
15	40	5	
20	42 1/2	2 1/2	
25	47 1/2	5	
30	50	2 1/2	
35	56	6	com 2235
40	4:03	4	
45	47 1/2	4 1/2	
50	49 1/2	2	
55	54 1/2	5	
60	58 1/2	6	
65	57	6 1/2	com 2265
70	4:41	10	ANK top 2266
75	5:03	12	
80	17	14	
85	31	14	
90	53	14	
95	6:08 1/2	15 1/2	
2300	6:18	16	Base 2303
05	39	11	
10	49	10	
15	59	10	
20	708	9	
25	16	8	12min - conn Ser Rip
30	35	7	
35	42	7	
40	49	7	
45	54	5	
50	800	6	
55	7	7	
60	17	6	4min out
65	23	6	
70	27	4	
75	32	5	
80	37	5	
85	43	6	
90	52	5	4min out
95	900	8	
2400	6	6	

DEPTH	TIME O'CLOCK	MIN.	REMARKS

STATE CORPORATION COMMISSION
 CONSERVATION DIVISION
 WICHITA, KANSAS
 MAR 29 1990

KANSAS BLUE PRINT CO., WICHITA, KAN. 09-281

[Handwritten mark]

COMPANY Rine Exploration

FARM Johnson

WELL NO. 2-17

SEC. TWP. RGE. LOC.

COUNTY Sheridan

STATE Ks

CONTRACTOR Abercrombie Drilling

SIZE HOLE 7 7/8

DRILL PIPE 4 1/2 x 17

REMARKS:

SIZE PUMP LINERS 6

LENGTH STROKE 15

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3500	10:45	3	
	48		
	50	2	
	52	2	
	56	4	
05	11:14	2	
	16		
	17	1	
	18	1	
	19	1	
	21	2	
10	24	3	
	25	1	
	27	2	
	29	2	
	32	3	
15	35	3	
	38	3	
	40	2	
	42	2	
	44	2	
20	46	2	
	48	2	
	50	2	
		1/2	
	51	1/2	
25	53	2	
	55	2	
	56	1	
	57	1	
	58	1	
30	59	1	
		1/2	
	12:00	1/2	
	01	1	
	02 1/2	1 1/2	
35	04	1 1/2	
	05	1	corn
	12:04	2	
	11		
	13	2	
	15	2	
40	17	2	
	19	2	
	20	1	
	21	1	
	24	3	
45	25	1	
	27	2	
	29	2	
	32	3	
	35	3	
50	38	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
	42	4	
	45	3	
	48	3	
	50 1/2	2 1/2	
55	53 1/2	2	
	56 1/2	3	
	59	2 1/2	
	1:01	2	
	04	3	
60	06	2	
	08	2	
	10	2	
	12	2	
	14	2	
65	16	2	
	19	3	
	22	3	corn
	1:26	2	
	28		
	30	2	
70	32	2	
	35	2	
	37 1/2	2 1/2	
	40	2 1/2	
	43	3	
75	46	3	
	49	3	
	52	3	
	55	3	
	57 1/2	2 1/2	
80	2:00	2 1/2	
	02	2	
	04 1/2	2 1/2	
	06 1/2	2	
	08 1/2	2	
85	11	1 1/2	
	13	2	
	14 1/2	1 1/2	
	16	1 1/2	
	17	1	
90	19	2	
	21 1/2	2 1/2	
	25	3 1/2	
	27 1/2	2 1/2	
	31	3 1/2	
95	34	3	
	37 1/2	3 1/2	
	40	2 1/2	
	2:45	3	
	48		
	50 1/2	2 1/2	
3600	53	2 1/2	

SANDRIP BLVD. CHINA ST. WINDHILL, N.M. 87020

COMPANY Rice Exploration

FARM Johanna

WELL NO. 2-17

SEC. TWP. RGE. LOC.

COUNTY Sheridan

STATE KS

CONTRACTOR Abercrombie Drilling

SIZE HOLE 7 7/8

DRILL PIPE 4 1/2 X 17

REMARKS:

SIZE PUMP LINERS 6

LENGTH STROKE 15

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3600	2:53		
	55	2	
	57	2	
	3:00	3	
	03	3	
05	06	3	
	09	3	
	13 1/2	4 1/2	
	17	3 1/2	
	21	4	
10	25	4	
	27	2	
	29	2	
	30 1/2	1 1/2	
	32	1 1/2	
15	34	2	
	36	2	
	37	1	
	39	2	
	42	3	
20	44	2	
	47	3	
	50	3	
	52 1/2	2 1/2	
	55	2 1/2	
25	57	2	
	4:00	3	
	02	2	
	06	4	
	09	3	corn
30	4 1/4	2	
	17 1/2	1 1/2	
	20	2 1/2	
	23	3	
	25 1/2	2 1/2	
35	28 1/2	3	
	32	3 1/2	
	37	5	
	41	4	
	45	4	
40	50	5	
	54	4	
	57	3	
	5:01	4	
	05	4	
45	10	5	
	12	2	
	14	2	
	16	2	
	18	2	
50	20	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
	23	3	
	29 1/2	2 1/2	vis 36 wt. 910
	30	4 1/2	
	33	3	
55	36	3	
	41	4	
	44 1/2	3 1/2	
	46 1/2	2	
	48 1/2	2	
60	50	1 1/2	
	51 5/6	2	
	57	1	
	58 1/2	1 1/2	
	6:00	1 1/2	
65	02	2	
	03 1/2	1 1/2	
	05	1 1/2	
	07	2	
	09	2	
70	11	2	
	13 1/2	2 1/2	
	17 1/2	4	
	20	2 1/2	
	23	3	
75	27	4	
	30	3	
	33 1/2	3 1/2	
	37 1/2	4	
	41 1/2	4	
80	43 1/2	2	
	45 1/2	2	
	48	2 1/2	
	50	2	
	52	2	
85	54	2	
	56	2	
	58	2	
	7:00	2	
	2 1/2	2 1/2	
90	5	2 1/2	
	7 1/2	2 1/2	corn
	18 1/2	2	
	21 1/2	1	
	23	1 1/2	
95	24 1/2	1 1/2	
	28	3 1/2	
	31	3	
	33	2	
	35	2	
3700	36 1/2	1 1/2	

COMPANY Pine Exploration

FARM John n

WELL NO. 2-17

SEC. TWP. RGE. LOC.

COUNTY Sheridan STATE Ks

CONTRACTOR Abercrombie Drng

SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 X 17

REMARKS:

SIZE PUMP LINERS 6 LENGTH STROKE 15

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3700	736 1/2 38 1/2	2	
	40	1 1/2	
	42 1/2	2 1/2	
	44 1/2	2	
5	47	2 1/2	
	49	2	
	50 1/2	1 1/2	
	52	1 1/2	
	53 1/2	1 1/2	
3710	55	1 1/2	
	56	1	
	58	2	
	8:00	2	
	2	2	
15	4	2	
	6	2	
	8	2	
	10	2	
	12	2	
3720	14	2	
	16	2	
	18	2	conn-work on pump
1009	10 1/2	1 1/2	
	12	1 1/2	
25	14	2	
	16	2	
	18	2	
	20	2	
	22	2	
3730	24 1/2	2 1/2	
	28	3 1/2	
	31	3	
	34 1/2	3 1/2	
	37	2 1/2	
35	38 1/2	1 1/2	
	41 1/2	3	
	44	2 1/2	
	47 1/2	3 1/2	
	51	3 1/2	
3740	53 1/2	2 1/2	
	56 1/2	3	
	59	2 1/2	
	1101	2	
	3	2	
45	5	2	
	7 1/2	2 1/2	
	10	2 1/2	
	13	3	
	16	3	wt vis
3750	18 1/2	2 1/2	9.3 40

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3750	11 1/2 21	2 1/2	
	24	3	
	27	3	CONN
	31 34	3	
55	38	4	
	41 1/2	3 1/2	
	44	2 1/2	
	47 1/2	3 1/2	
	51	3 1/2	
3760	53 1/2	2 1/2	
	56	2 1/2	
	58	2	
	1200	2	
	2	2	
65	4	2	
	6	2	
	9 1/2	3 1/2	
	13	3 1/2	
	17	4	
3770	21	4	
	24	3	
	26 1/2	2 1/2	
	29	2 1/2	
	31 1/2	2 1/2	
75	33 1/2	2	
	35 1/2	2	
	38	2 1/2	
	40	2	
	42	2	
3780	43 1/2	1 1/2	
	45 1/2	2	
	47 1/2	2	
	49 1/2	2	
	51 1/2	2	CONN
85	56 59	3	
	103	4	
	8	5	
	13 1/2	5 1/2	
	19	5 1/2	
3790	23	4	
	25	2	
	27 1/2	2 1/2	
	31	3 1/2	
	35	4	
95	39	4	
	41	2	
	42	1	
	43	1	
	44 1/2	1 1/2	
3800	48	3 1/2	

1009
2630
2710
11
0
14

1200
2630
2710

COMPANY Pine Exploration

FARM John n

WELL NO. 2-17

SEC. TWP. RGE. LOC.

COUNTY Sheridan STATE Ks

CONTRACTOR Abercrombie Dnlg

SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 X H

REMARKS:

SIZE PUMP LINERS 6 LENGTH STROKE 15

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3800	14 1/2	2 1/2	vis wt
	52 1/2	2	42 9.2
	54 1/2	2	
	56	1 1/2	
5	57	1	
	58 1/2	1 1/2	
	2 00	1 1/2	
	2	2	
	6	4	
3810	10	4	
	13	3	
	16	3	
	19	3	
	22 1/2	3 1/2	conn
15	27 30	3	vis 42
	32	2	
	34	2	
	36	2	
	38	2	
3820	40	2	
	42 1/2	2 1/2	
	44 1/2	2	
	46	1 1/2	
	48	2	
25	50 1/2	2 1/2	
	52 1/2	2	
	54	1 1/2	
	56	2	
	58 1/2	2 1/2	
3830	301	2 1/2	
	3	2	
	5	2	
	7	2	
	9 1/2	2 1/2	
35	12 1/2	3	
	15	2 1/2	
	17 1/2	2 1/2	
12)	20	2 1/2	
	22 1/2	2 1/2	
3840	24 1/2	2	
	27 1/2	3	
10 1/2	30	2 1/2	
	32	2	
	34	2	
45	37	3	conn
	46 1/2	5	
	56	5	
	401	5	
	4 1/2	5 1/2	
3850	10	3 1/2	wet + Dry

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3850	10	3	
	13	3	
	16	3	
	19 1/2	3 1/2	
	23	3 1/2	
13	26	3	
	29	3	
	32	3	
	35	3	
12 1/2	38 1/2	3 1/2	
3860	41 1/2	3	
	45	3 1/2	
	48	3	
11 1/2	51	3	
	54 1/2	3 1/2	
	65 57 1/2	3	
	500 1/2	3	
	3 1/2	3	
15 1/2	6 1/2	3	
	9 1/2	3	
3870	13	3 1/2	
	15 1/2	2 1/2	
	19	3 1/2	
	24	5	
20	29	5	
	75	33	4
	36	3	conn
	40 1/2	2	
15	45 1/2	3 1/2	
	49	3 1/2	50 vis 9.5 wt.
3880	52	3	
	56	4	
	59 1/2	3 1/2	
	60 3/2	3 1/2	
	6 1/2	3	
18 1/2	85	9	2 1/2
	10	1	
	1 1/2	1 1/2	
8	12	1 1/2	
	14 1/2	2 1/2	
3890	17 1/2	3	
	21	3 1/2	
	25	4	
17 1/2	28	3	
	32	4	
95	35	3	
	39	4	
	42	3	
20 1/2	46	4	
	51	5	
3900	55 1/2	4 1/2	

COMPANY Pine Sp FARM Johnson WELL NO. 2-17
 SEC. TWP. RGE. LOC. COUNTY STATE KS
 CONTRACTOR ABERcrombie D&G SIZE HOLE 7 7/8 DRILL PIPE 1 1/2 XTT
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 15

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3900 1	5 1/2 7:00	5	
	7	6 1/2	
	11	4	
	14	3	
5	17 1/2	3 1/2	
	20 1/2	3	
	24	3 1/2	CONN
	28	3	
	33 1/2	2 1/2	
10	37	3 1/2	Get Geol.
	42	5	
	45	4	
	48	2	
	51	3	
15	54	3	
	58	4	CFS
	9:26 51	6	
	35	4	46 vis 9.5 wt
	38	3	
20	41	3	
	45	4	
	48	3	
	52	4	
	55	3	
25	58 1/2	3 1/2	
	10:03	4 1/2	
	7	4	
	11 1/2	4 1/2	
	16	4 1/2	
30	20	4	CFS 30"-60"
	8:32 35	3	
	39	4	
	43	4	
	46 1/2	3 1/2	
35	50 1/2	4	
	54	3 1/2	
	58	4	
16 1/2	9:01	3	
	04 1/2	3 1/2	CONN
40	11 1/4	3	
	17 1/2	3 1/2	
	22	4 1/2	
27	26	4	
	30	4	
45	35	5	
	39	4	
	43	4	
21	47	4	
	51 1/2	4 1/2	52 vis. 9.3 wt
50	56	4 1/2	Get Geol.

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3900 51	5 1/2 10:01	5	
	5	4	
24	10	5	
	15	5	
55	20	5	
	23 1/2	3 1/2	
	27	3 1/2	
16	31	4	
	34	3	
10	36	2	
	37	1	
	39	2	
10	41	2	
	44	3	
65	46	2	
	50	4	
	52 1/2	2 1/2	
18	56	3 1/2	
	1:00	4	
70	04	4	
	08	4	CONN
	2:25	3	
	29	4	
	34	5	
75	38	4	
	42	4	
	47	5	
22	51	4	
	56	5	
80	12:00	4	
	05	5	
	09	4	
	13	4	
	18	5	
85	21	3	
	26	5	
	30	4	
	34	4	
	38	4	
90	42	4	
	47	5	
	52	5	
	56	4	
	1:01	5	
95	05	4	
	10	5	
	14	4	
	19	5	
	24	5	
4000	27	3	

COMPANY Pine Ex

FARM Johnson

WELL NO. 2-17

SEC. TWP. RGE. LOC.

COUNTY 77/8

STATE Kan

CONTRACTOR Abercrombie

SIZE HOLE

DRILL PIPE 4 1/2 X H

REMARKS:

SIZE PUMP LINERS 6 LENGTH STROKE 15

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4000	27	32	
	36	4	Conn:
	48	5	
	54	6	
5	59	5	
	205	6	
	12	7	
	16	4	
	20	6	
4010	27	5	
	33	6	
	38	5	
	43	5	
	49	6	
415	55	6	
	301	6	
	07	6	
	14	7	
	19	5	
4020	24	5	Wake Geol
	28	4	
	33	5	
	37	4	
	41	4	
25	45	4	
	50	5	
	54	4	
	59	5	
	404	5	
4030	09	5	
	15	6	
	20	5	
	25	5	Conn:
	33	40	
35	46	6	
	54	8	
	59	5	
	505	6	
	11	6	
4040	17	6	
	23	6	
	28	5	
	34	6	
	40	6	
45	45	5	
	50	5	
	56	6	
	603	7	
	09	6	
4050	16	7	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4050	16	22	
	30	8	
	35	5	
	40	5	
55	45 1/2	5 1/2	
	50 1/2	5	
	55	4 1/2	vis wt
	700	5	410 9.6
	5 1/2	5 1/2	
4060	10	4 1/2	
	15	5	
	19	4	
	23	4	
	27 1/2	4 1/2	
65	32	4 1/2	COYF =
	37	41 1/2	
	46	4 1/2	
	51	5	
	55	4	
4070	58 1/2	3 1/2	
	803	4 1/2	
	7	4	
	12	5	
	16 1/2	4 1/2	
75	20	3 1/2	
	24	4	
	28	4	
	33	5	
	37	4	
4080	40 1/2	3 1/2	
	44	3 1/2	
	47 1/2	3 1/2	
	51	3 1/2	
	55	4	
85	59	4	
	903 1/2	4 1/2	
	7 1/2	4	
	12	4 1/2	
	17	5	
4090	21	4	
	25	4	
	30 1/2	5 1/2	
	35	4 1/2	
	40	5	
95	45	5	conn-jet hole
	53	4	
	1002	5	
	7	5	
	11	4	
4100	15	4	STOP CFS

30" - 60"

COMPANY Rine Expiration

FARM John's

WELL NO. 2-17

SEC. TWP. RGE. LOC.

COUNTY Sheridan STATE KS

CONTRACTOR Abercrombie Donly

SIZE HOLE 7 7/8

DRILL PIPE 4 1/2 X 11

REMARKS:

SIZE PUMP LINERS 6

LENGTH STROKE 15

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4100	11 23	3 1/2	
	30 1/2	4	
	34	3 1/2	
	38	4	
5	41	3	
	45	4	
	49	4	
	53	4	
	56 1/2	3 1/2	
4110	1201	4 1/2	vis wt
	5	4	40 9.4
	9 1/2	4 1/2	
	14	4 1/2	
	18	4	
15	23 1/2	5 1/2	
	28 1/2	5	
	33 1/2	5	
	38 1/2	5	
	43	4 1/2	
4120	47 1/2	4 1/2	
	52	4 1/2	
	56	4	
	100	4	
	4	4	
25	7 1/2	3 1/2	
	10 1/2	3	00117
	15 1/2	2 1/2	
	20 1/2	3	
	23	2 1/2	
4130	26	3	
	28 1/2	2 1/2	
	31	2 1/2	
	33	2	
	35	2	
35	37	2	
	39	2	
	41	2	
10	43	2	
	45	2	
4140	47	2	
	49	2	
	51	2	
11	53	2	
	55	2	
45	58	3	
	201	3	
	4	3	
18	8	4	vis wt
	12	4	42 9.4
4150	16	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4150	21 1/2	4	
	24 1/2	4 1/2	
22	29	4 1/2	
	33	4	
55	38	5	
	44	6	
	48	4	
20	57 300	3	
	03	3	
4160	07	4	
	11 1/2	4 1/2	
	15	4 1/2	
20	28	3	
	21 1/2	3 1/2	
65	26	4 1/2	
	29	3	
	32 1/2	3 1/2	
	37	4 1/2	
	41	4	
4170	46	5	
	50	4	
	54	4	
	57	3	
	403	6	55 vis. 9.6 wt.
75	8	5	STOP! CIRC. for
			log. 1 1/2 hrs.
			55 - strap pipe
4180			
85			
4190			
95			
4200			

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

New MAR 5 - 1990

15-179-20956-0000
 Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. N^o: 8537

Home Office P. O. Box 31

Russell, Kansas 67665

Date	2-28-90	Sec.	17	Twp.	10 ^s	Range	26 ^w	Called Out	1:45 A.M.	On Location	4:15 A.M.	Job Start	6:30 A.M.	Finish	9:00 A.M.
Lease	JOHNSON	Well No.	2-17	Location	Stadley W634W55	County	Shenandoah	State	Ks.						
Contractor	Abercrombie Drilling Rig #4														
Type Job	Plug														
Hole Size	7 7/8"	T.D.	4125'												
Csg.	8 1/2"	Depth	319'												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.		Shoe Joint													
Press Max.		Minimum													
Meas Line		Displace													
Perf.															

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 Plug Exploration

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

Purchase Order No. 1000

X CEMENT

EQUIPMENT

Pumptrk	No.	Cementer	Gary H. Wayne Ak.
	191	Helper	
Pumptrk	No.	Cementer	P. Lee C.
		Helper	
Bulktrk	#212	Driver	
		Driver	

DEPTH of Job

Reference:	#9 Pumptruck plug	
	#8 1-8 1/2" dog hole plug	
	#14 Mileage @ 1.00/mi.	
	Sub Total	
	Tax	
	Total	

Remarks: 1st plug @ 2300' w/20 sks.
 2nd plug @ 1355' w/100 sks
 3rd plug @ 360' w/40 sks.
 8 1/2" plug @ 40' w/10 sks to surface
 plugged out hole w/15 sks.

Amount Ordered	185 sks 6 1/2" @ 2.50/sk
Consisting of	1 sk. Plug
Common	
Poz. Mix	
Gel.	
Chloride	
Quickset	
Sales Tax	
Handling	0.90/sk
Mileage	0.03 @ 1.00/mi.
Sub Total	
Total	
Floating Equipment	Trucks

DISTRICT Hays, Ks. DATE 2-21-90

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

WELL NO. # 2-17 LEASE JOHNSON SEC. 17 TWP. 10 RANGE 26

FIELD N Quinter, Ks. COUNTY Sheridan STATE Ks. OWNED BY Rine Exploration, Inc.

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM TO						
PACKER: TYPE	SET AT						
TOTAL DEPTH <u>321'</u>	MUD WEIGHT						
BORE HOLE <u>12 1/4"</u>							
INITIAL PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF							
PRESENT PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF							
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

RECEIVED STATE CORPORATION COMMISSION

MAR 9 1990

CONSERVATION DIVISION Wichita, Kansas

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

Cement 8 5/8" Surface Csg. w/ 200SKS. 60/40 Poz. 2% Gel-3% C.C.

As directed

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.
- c) 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 change or modification is made in writing by a duly authorized executive officer of Halliburton.

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

SIGNED [Signature] CUSTOMER

DATE 2-21-90

TIME 1900 A.M.(P.M.)

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME # 2-17 JOHNSON		COUNTY Sheridan	STATE KS.	CITY / OFFSHORE LOCATION	DATE 2-21-90
CHARGE TO Rine Exploration, Inc.		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 Abercrombie Dr 19 #4	LOCATION 1 Oberlin, KS.		CODE 50329
CITY, STATE, ZIP		SHIPPED VIA 2591-3846	FREIGHT CHARGES <input type="checkbox"/> FPD <input type="checkbox"/> COLLECT	LOCATION 2	CODE
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO. B-865594	DELIVERED TO N Quarter, KS.	LOCATION 3	CODE
TYPE AND PURPOSE OF JOB 010 Cement Surface Csg.		ORDER NO.		REFERRAL LOCATION	

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

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

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117		1		MILEAGE (2591)	45	mi.			2.20	99.00
001-016		1		Pump Charge	319	FL.			402.60	402.60
030-503		1		Top Plug (LA-11)	1	ea.	85/8 in.		59.00	59.00

THIS IS NOT AN INVOICE

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B-865594 SUB TOTAL 1732.72

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X CUSTOMER OR HIS AGENT (PLEASE PRINT)
M. J. [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.

Elder Reynolds
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

SUB TOTAL 1732.72

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

WELL DATA

Oberlin, Ks.

CUSTOMER: River Exploration, Inc. LEASE: Johnson #2-17 JOB TYPE: 8 5/8" Surface Csg. DATE: 2-21-90

FIELD N Quinte SEC 17 TWP 10 RNG 26 COUNTY Sheridan STATE Ks.

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		N	24	8 5/8"	KB	319	
FORMATION THICKNESS	FROM TO	LINER					
INITIAL PROD: OIL	BPD. WATER	BPD. GAS	MCFD	TUBING			
PRESENT PROD: OIL	BPD. WATER	BPD. GAS	MCFD	OPEN HOLE			SHOTS/FT.
COMPLETION DATE	MUD TYPE	MUD WT.		PERFORATIONS			
PACKER TYPE	SET AT			PERFORATIONS			
BOTTOM HOLE TEMP	PRESSURE			PERFORATIONS			
MISC. DATA	TOTAL DEPTH						

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-21-90</u>	DATE <u>2-21-90</u>	DATE <u>2-21-90</u>	DATE <u>2-21-90</u>
TIME <u>1515</u>	TIME <u>1830</u>	TIME <u>2027</u>	TIME <u>2100</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>LA-11</u>	<u>8 5/8"</u>	<u>1ea. Halco</u>
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>E. Reynolds</u>	<u>RUN MT-400</u>	<u>Oberlin, Ks.</u>
<u>J. Alstrom</u>	<u>2591</u>	<u>Oberlin, Ks.</u>
<u>G. Bryant</u>	<u>3m 3846</u>	<u>Oberlin, Ks.</u>

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

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 Cementing

DESCRIPTION OF JOB Cement 8 5/8" Surface Csg.

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X Wood

HALLIBURTON OPERATOR Eddy COPIES REQUESTED

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>200</u>	<u>60140</u>			<u>2% Gel-3% CC</u>	<u>1.28</u>	<u>14.4</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING DISPLACEMENT PRESLUSH: BBL-GAL 5.0 TYPE Water

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

AVERAGE FRACTURE GRADIENT TREATMENT: BBL-GAL DISPL: BBL-GAL 19.3

SHUT-IN: INSTANT 5-MIN. 15-MIN. CEMENT SLURRY: BBL-GAL 45.6

ORDERED AVAILABLE USED TOTAL VOLUME: BBL-GAL

TREATING DISPL CEMENT LEFT IN PIPE OVERALL

REMARKS See Job Log & Chart

FEET 15 REASON Requested Cement did Circulate

THANK YOU

BULK MATERIALS DELIVERY AND TICKET CONTINUATION

HALLIBURTON SERVICES
A Division of Halliburton Company

FOR INVOICE AND
TICKET NO. **863288-8**

DATE 12-21-90	CUSTOMER ORDER NO.	WELL NO. AND FARM Johnson 2-17	COUNTY Sheridan,	STATE Ks
CHARGE TO Rine Exploration		OWNER Rine	CONTRACTOR Abercrombie #4	No. B 865594
MAILING ADDRESS		DELIVERED FROM Oberlin, Ks	LOCATION CODE 50329	PREPARED BY vlk
CITY & STATE		DELIVERED TO N. Quinter, Ks.	TRUCK NO. 3846	RECEIVED BY <i>Elder Reynolds</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT		
		L	D		QTY.	MEAS.	QTY.	MEAS.				
504-308				Standard Cement	120	sk			6.75	810	00	
506-105				Pozmix	80	sk			3.50	280	00	
506-121				Halliburton Gel Allowed 2% (3)						NC		
509-406				Calcium Chloride	6	sk			26.25	157	50	
				Returned Mileage Charge								
				TOTAL WEIGHT								
				LOADED MILES								
				TON MILES								
				SERVICE CHARGE ON MATERIALS RETURNED								
				CU. FEET								
500-208				SERVICE CHARGE	212				.95	201	40	
				CU. FEET								
500-306				Mileage Charge	18,020				.70	283	82	
				TOTAL WEIGHT								
				LOADED MILES	45							
				TON MILES	405.45							
No. B 865594									CARRY FORWARD TO INVOICE		SUB-TOTAL	
											1732 72	

THIS IS NOT AN INVOICE

HALLIBURTON SERVICES
JOB LOG

WELL NO. #2-17 LEASE Johnson TICKET NO. 863288-8
 CUSTOMER Rine Exploration Inc. PAGE NO. # 1091
 JOB TYPE 8 5/8" Surface Csg. DATE 2-21-90

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1/515							Called out - Job ready @ 1900hrs.
	1830							ON LOC. - Rig Circ. - Setup Equip.
	1855							DP out of hole
	19 1/2							Start 8 5/8" Csg. - weld Collars
	2025							Csg. @ 319' - Hook up to Circ.
	2030							Rig Start Circulating
	2036							Hook up to P.T.
	2038	4.0	5.0				150	Start 5 bbl. water
	2040	4.5	45.6				150	Start mixing 200 Sks. 60140.2% Gel. 3% C.C.
	2055	4.5					100	Finish mixing Cement
								Release 8 5/8" LA-11 Top Plug
	2056		19.3				50	Start disp.
	2100						100	Plug down
	2100							Job Completed
								Thank you Eldon - Jerry & Gary
								Cement did Circulate. (in cellar)

CUSTOMER