ACID ENGINEERS, Inc.

TREATMENT REPORT

Invoice No. 16783 Station Great Bend Date April 10, 1970

Owner Glen Rupe Lease KLEIN Well No. 1

Pool Bailey Ext. County Barton State Kansas

Loc. 25-18-12 C N/2 NE SE Formation

Pipe Data—

T.D. P.B. 3330
Csg. Size 5½" Wt. 14#
Csg. Depth Sks. Cement
Tbg. Size Depth
Packer Type Annulus Vol.
Csg. Vol. 81 Tbg. Vol.

Perforating Data—

Shots/Ft.
From 3182 To 3185
From To
From To
From To
From To

Production—

	Oil	Water
Present	0	0

Previous Treatments

New Perfs.

Detailed Record of Treatment

Materials Used

Quan.	Type	Quan.	Type
250	SME 15%		

Fluids Used

Acid	6
Breakdown	
Frac	
Flush	85

Time	Pressure Csg.	Pressure Tbg.	Bbls. of Fluid Out of Tanks	Bbls. of Fluid In Form.	Inj. Rate	Remarks
						Pump 2 bbl water to fill rathole
7:04	0		0	0		Start acid down casing
7:05	0		6			Start flush
7:18	300		81			Acid on perfs. Stop pump
7:19	300					Start pump
7:23	825		82½	1½		Formation feeding
7:28	800		83½	2½	1/5	Speed pump
7:30	1850					
7:32	1800		87	6	.9	Speed pump
7:33	1800		91	10	3	Flush in Stop pump
7:33	1650					ISIP
7:34	1450					1 min press drop
7:36	950					3 min press drop
7:38	600					5 min press drop
7:47	175					14 min press drop Bleed pressure

Arrival Date 4-10 Time 4:45 Pm Left Location: Date 4-10 Time 8:15 PM Round Trip Miles 30

(See Reverse Side for Additional Treatment Remarks)

Equipment Used

Name	Unit No.	Name	Unit No.
Bob A.	151		
Bon	398		

Treatment Resume

Avg. Inj. Rate	Max 3	BPM
Avg. Trt. Press.	1600	psi
Hydraulic HP Used		
Total Fluid Pumped	91 bbl	
Maximum Pressure	1850	psi
Minimum Pressure	300	psi
I. S. I. P.	1650	psi

Glen Rupe
Owner's Representative

J. D. Strunk
Station Manager

Don Aumiller
Service Engineer

(Treatment Schedule)

Time	Pressure Csg.	Pressure Tbg.	Bbls. of Fluid Out of Tanks	Bbls. of Fluid In Form.	Inj. Rate	Remarks

ACID ENGINEERS, Inc.

TREATMENT REPORT

Invoice No. 16780 Station Great Bend Date Apreil 9, 1970

Owner Glen Rupe Lease Klein Well No. 1

Pool Bailey Ext. County Barton State Kansas

Loc. 25-18-12 C N/2 NE SE Formation Arbuckle

Pipe Data—

T.D. 3403 P.B. _____
Csg. Size 5½" Wt. 14#
Csg. Depth 3397 Sks. Cement _____
Tbg. Size _____ Depth _____
Packer Type _____ Annulus Vol. _____
Csg. Vol. 83 bbl Tbg. Vol. _____

Perforating Data—

Shots/Ft. _____
From _____ To _____
From _____ To _____
From _____ To _____
From _____ To _____
From _____ To _____

Production—

	Oil	Water
Present	1	0

Previous Treatments

250 SME 15%

Detailed Record of Treatment

Materials Used

Quan.	Type	Quan.	Type
1000 gal.	15% R-3		

Fluids Used:

Acid	24
Breakdown	
Frac	
Flush	Water

Time	Pressure Csg.	Pressure Tbg.	Bbls. of Fluid Out of Tanks	Bbls. of Fluid In Form.	Inj. Rate	Remarks
						Pump 24 bbls. acid & 64 bbl water
6:43	150		88	5		Hole loads Slow pump
6:53	1975					Press leveling
6:55	1900		92½	9½	.375	Slight press break Speed pump
6:66	1825		93 3/4	10 3/4		Slight press break Speed pump
7:03	1550		100 3/4	17 3/4	1	Press declining slowly Speed pump
7:03½	1600					
7:05	1575					Speed pump
7:05	1650					
7:09	1550		114	31	2.20	Flush in Stop pump
7:09	1350					ISIP
7:10	1150	1 min press drop				7:24 650 15 min press drop
7:12	975	3 min press drop				7:28 600 19 min press drop
7:19	775	10 min press drop				
7:14	900	5 min press drop				

Arrival Date 4-9 Time 5 PM Left Location: Date 4-9 Time 7:30 PM Round Trip Miles 30

(See Reverse Side for Additional Treatment Remarks)

Equipment Used

Name	Unit No.	Name	Unit No.
Hal	141		
Don	398		

Treatment Resume

Avg. Inj. Rate	1	BPM
Avg. Trt. Press.	1700	psi
Hydraulic HP Used		
Total Fluid Pumped	114 bbl.	
Maximum Pressure	1975	psi
Minimum Pressure	1550	psi
I. S. I. P.	1350	psi

Glen Rupe
Owner's Representative

J. D. Strunk
Station Manager

Don Aumiller
Service Engineer

(Treatment Schedule)

Time	Pressure Csg.	Pressure Tbg.	Bbls. of Fluid Out of Tanks	Bbls. of Fluid In Form.	Inj. Rate	Remarks

ACID ENGINEERS, Inc.

TREATMENT REPORT

Invoice No. 16780 Station Great Bend Date April 9, 1970

Owner Glen Rupe Lease Klein Well No. 1

Pool Bailey Ext. County Barton State Kansas

Loc. 25-18-12C N/2 NE SE Formation Arbucklex

Pipe Data—

T.D. 3403 P.B. _____
Csg. Size 5½ Wt. 14#
Csg. Depth 3397 Sks. Cement _____
Tbg. Size _____ Depth _____
Packer Type _____ Annulus Vol. _____
Csg. Vol. 83 bbl. Tbg. Vol. _____

Perforating Data—

Shots/Ft. _____
From _____ To _____
From _____ To _____
From _____ To _____
From _____ To _____
From _____ To _____

Production—

	Oil	Water
Present		

Previous Treatments

New Well

Detailed Record of Treatment

Materials Used

Quan.	Type	Quan.	Type
250 SME	1.5%		

Fluids Used:

Acid	6
Breakdown	
Frac	
Flush Water	83½

Time	Pressure Csg.	Pressure Tbg.	Bbls. of Fluid Out of Tanks	Bbls. of Fluid In Form.	Inj. Rate	Remarks
						Pump 6 bbl acid & 77 bbls water
9:37	200		83			Acid on form. Stop pump
9:43	500					Increase press.
9:49	750					INcrease press.
9:50	700					Start pump
10:00	1200		84	1		Formation feeding
10:03	1150		84¼	1¼		Slight press break Speed pump
10:10	1575		843/4	13/4	1/10	Press. leveling
10:30	1650					
10:40	1800					
10:58	1825		89½	6½	1/10	Flush in Stop pump
10:59	1750					1 min drop
10:00	1700	2 min drop				11:04 1125 16 min drop
11:03	1475	5 min drop				Bleed press
11:08	1275	10 min drop				

Arrival Date 4-9 Time 8:45AM Left Location: Date 4-9 Time 11:30AM Round Trip Miles 30

(See Reverse Side for Additional Treatment Remarks)

Equipment Used

Name	Unit No.	Name	Unit No.
Hal	141		
Don	398		

Treatment Resume

Avg. Inj. Rate	1/10	BPM
Avg. Trt. Press.	1800	psi
Hydraulic HP Used		
Total Fluid Pumped	89½	
Maximum Pressure	1825	psi
Minimum Pressure	200 ~~800~~	psi
I. S. I. P.	1825	psi

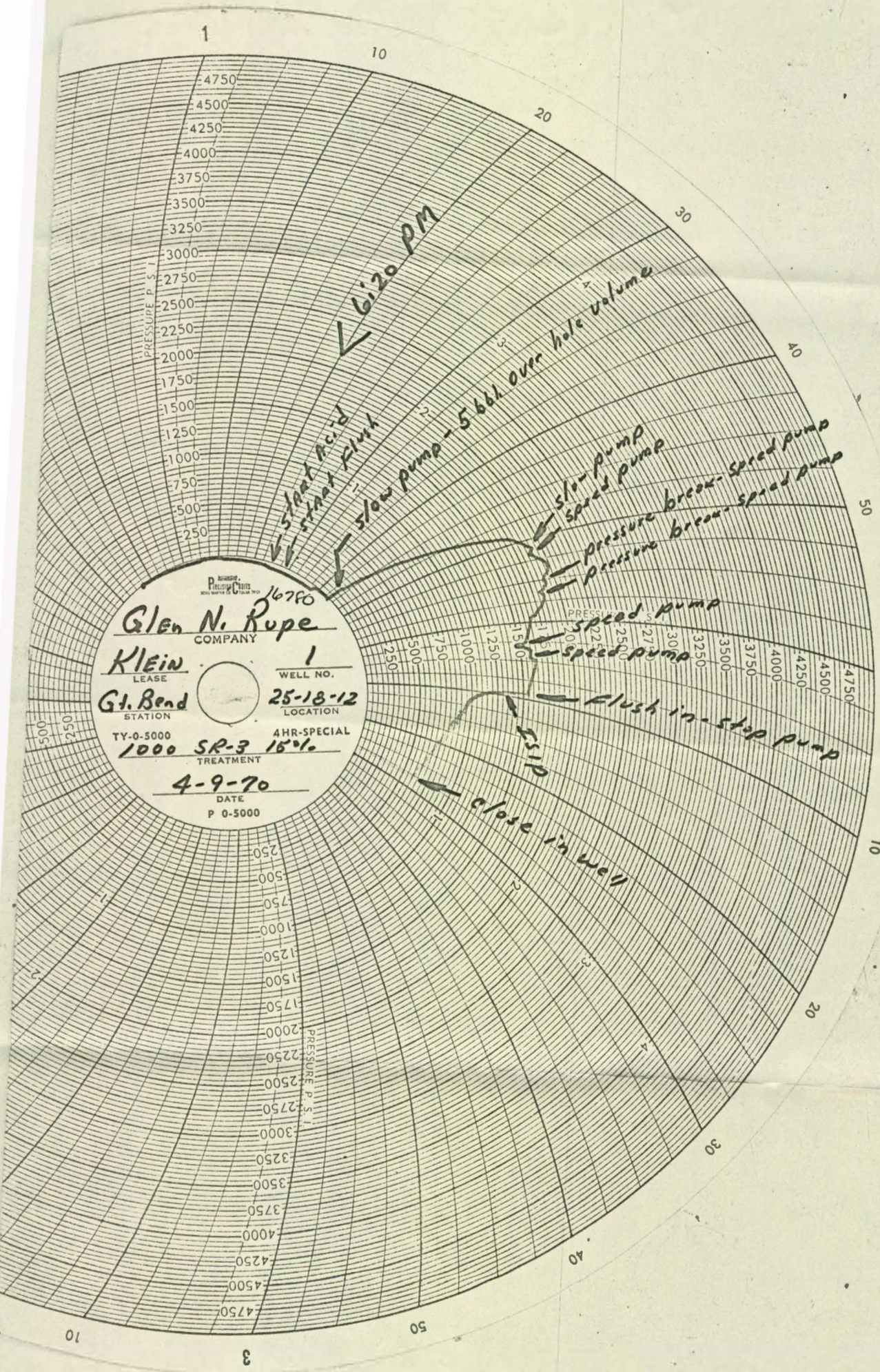
Glen Rupe
Owner's Representative

J. D. Strunk
Station Manager

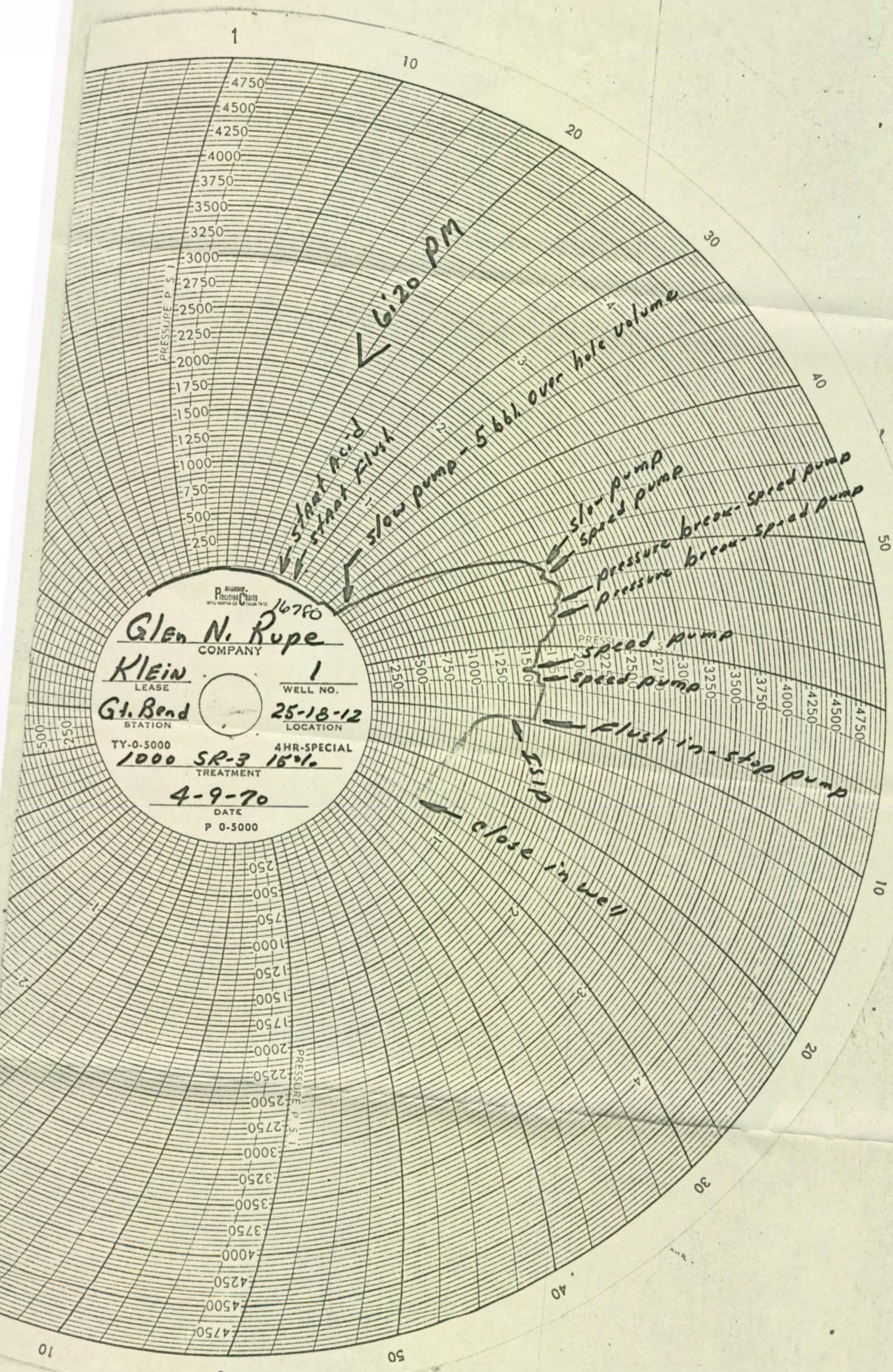
Don Aumiller
Service Engineer

(Treatment Schedule)

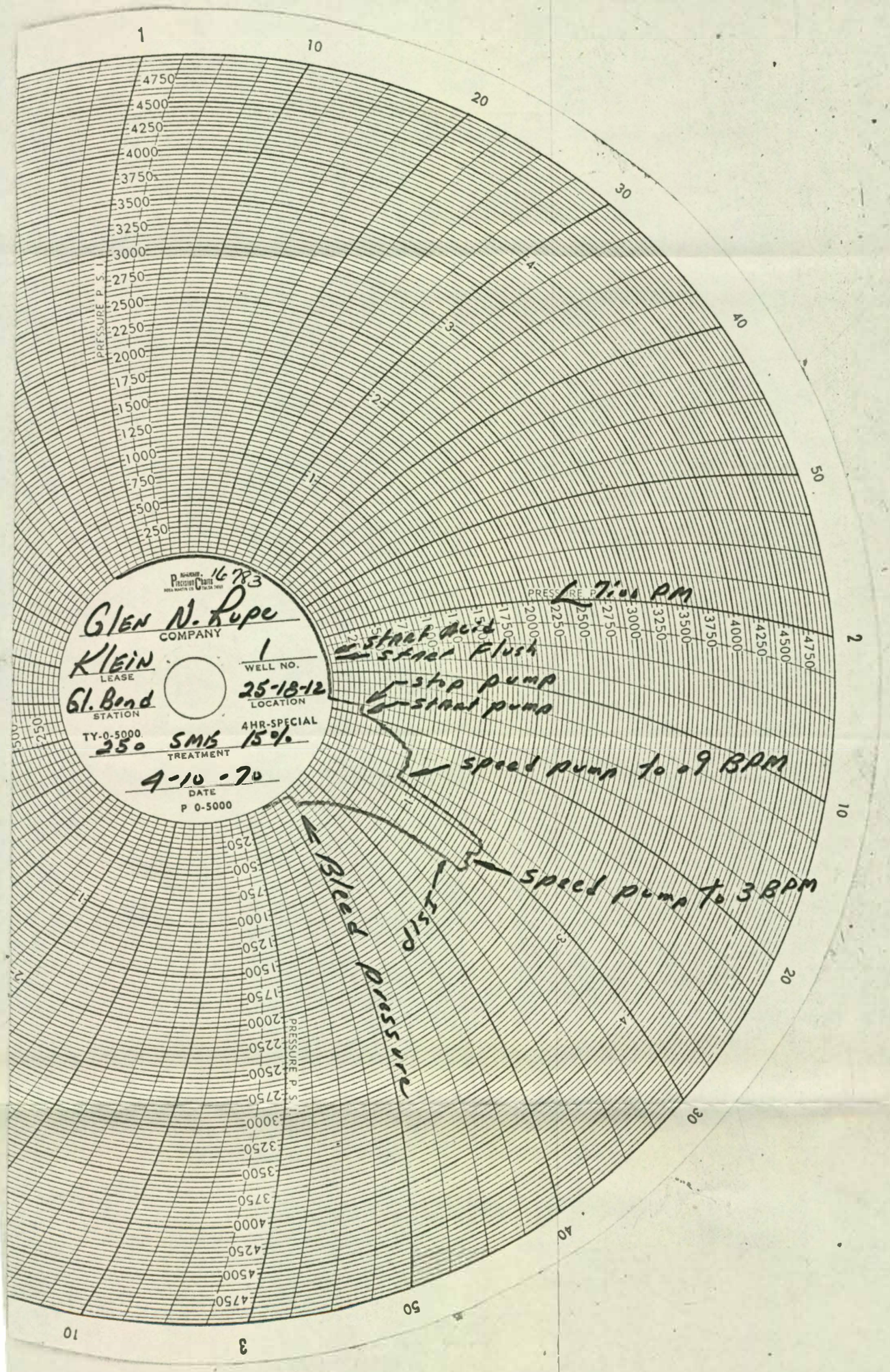
Time	Pressure Csg.	Pressure Tbg.	Bbls. of Fluid Out of Tanks	Bbls. of Fluid In Form.	Inj. Rate	Remarks

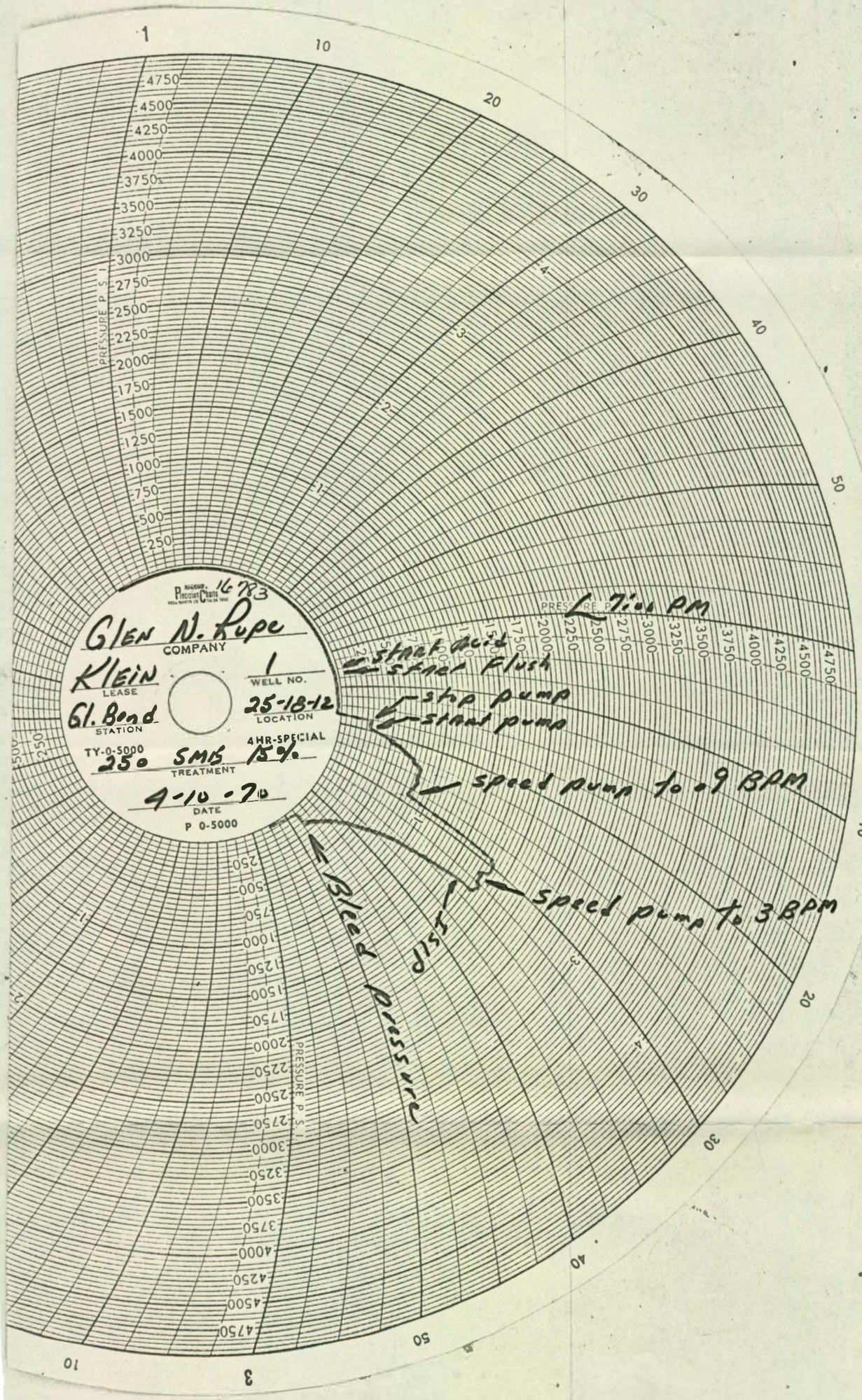

Glen N. Rupe
COMPANY
Klein
LEASE
1
WELL NO.
Gt. Bend
STATION
25-18-12
LOCATION
TY-0-5000
4HR-SPECIAL
1000 SR-3 15%
TREATMENT
4-9-70
DATE
P 0-5000
PRESSURE P.S.I.
6:20 PM
start acid
start flush
slow pump - 56bl over hole volume
slow pump
speed pump
pressure break - speed pump
pressure break - speed pump
speed pump
speed pump
flush in - stop pump
slip
close in well

16780
Glen N. Rupe
COMPANY
Klein
LEASE
1
WELL NO.
25-18-12
LOCATION
Gt. Bend
STATION
AHR-SPECIAL
TY-0-5000
250
SME 15%
TREATMENT
9-9-70
DATE
P 0-5000
PRESSURE P.S.I.
PRINTED IN U.S.A.
Flush in slip pump
Bleed Pressure
% BPM
Pump pressure
Sand dots
Start flush
Start Bleed
9:00 A.M.


Glen N. Rupe
COMPANY
KLEIN
LEASE
1
WELL NO.
Gt. Bend
STATION
25-18-12
LOCATION
TY-0-5000
4HR-SPECIAL
1000 SR-3 15%
TREATMENT
4-9-70
DATE
P 0-5000
16780
PRESSURE P.S.I.
6:20 PM
start acid
start flush
slow pump - 5 bbl over hole volume
slow pump
speed pump
pressure break - speed pump
pressure break - speed pump
speed pump
speed pump
flush in - stop pump
slip
close in well

PRINTED IN U.S.A.
PRESSURE P.S.I.
Flush in-stop pump
Bleed pressure
11 to BPM
Speed pump
Pump 5 bbls fresh
Pump 5 bbls fresh
Pump 5 bbls fresh


16783
GLEN N. RUPE
COMPANY
KLEIN
LEASE
1
WELL NO.
Gl. Bend
STATION
25-18-12
LOCATION
TY-0-5000
250 SMS 15%
TREATMENT
4HR-SPECIAL
4-10-70
DATE
P 0-5000
PRESSURE P.S.I.
Start Acid
Start Flush
Stop pump
Start pump
speed pump to .9 BPM
speed pump to 3 BPM
Bleed pressure
dist


16783
Glen N. Rupe
COMPANY
Klein
LEASE
1
WELL NO.
Gl. Bend
STATION
25-18-12
LOCATION
TY-0-5000
4HR-SPECIAL
250 SMS 15%
TREATMENT
4-10-70
DATE
P 0-5000
PRESSURE P.S.I.
start acid
start flush
stop pump
start pump
speed pump to .9 BPM
speed pump to 3 BPM
bleed pressure
dist

ACID ENGINEERS, Inc.

TREATMENT REPORT

Invoice No. 16753 Station Great Bend Date April 22, 19 70

Owner Glen N. Rupe Lease KLEIN Well No. 1

Pool Bailey Ext. County Barton State Kansas

Loc. 25-18-12 C/N2 NE SE Formation Kansas City

Pipe Data—

T.D. 3403 P.B. 3330
Csg. Size 5½" Wt. 14#
Csg. Depth 3397 Sks. Cement
Tbg. Size Depth
Packer Type Annulus Vol.
Csg. Vol. 81 bbl. Tbg. Vol.

Perforating Data—

Shots/Ft.
From 3182 To 3185
From To
From To
From To
From To

Production—

	Oil	Water
Present	0	

Previous Treatments

250 SME
1500 Retarded
DOC squeezed

Detailed Record of Treatment

Materials Used

Quan.	Type	Quan.	Type
200 gal. Diesel w/5 gal O-1		Flo Ease	

Fluids Used

Acid	
Breakdown	5
Frac	
Flush	80 & 3

Time	Pressure Csg.	Pressure Tbg.	Bbls. of Fluid Out of Tanks	Bbls. of Fluid In Form.	Inj. Rate	Remarks
						Rat hole filled w/water pump diese & 76 bbl. water
3:40	100		81			Hole loads Diese on form. Stop pump
3:43	300					Increas press. Pump at intervals
3:57	350					Increase press. Pump at intervals
4:07	500					" " " " "
4:32	1000					" " " " "
4:42	1500					" " " " "
4:52	1800					Increase press. Pump at intervals
4:57	2100					" " " " "
5:03	2250					" " " " "
5:11	2600		88	7		Flush 2 bbls. overflush in Stop pump
5:14	1850					3 min press drop Bleed press.

Arrival Date 4-22 Time 2:30 PM Left Location: Date 4-22 Time 7 PM Round Trip Miles 20

(See Reverse Side for Additional Treatment Remarks)

Equipment Used

Name	Unit No.	Name	Unit No.
Bob A.	143		
Bob H.	418		

Treatment Resume

Avg. Inj. Rate		BPM
Avg. Trt. Press.		psi
Hydraulic HP Used		
Total Fluid Pumped	91 bbl.	
Maximum Pressure	2600	psi
Minimum Pressure	100	psi
I. S. I. P.	2600	psi

Glen Rupe
Owner's Representative

J. D. Strunk
Station Manager

Bob Harris
Service Engineer

(Treatment Schedule)

Time	Pressure Csg.	Pressure Tbg.	Bbls. of Fluid Out of Tanks	Bbls. of Fluid In Form.	Inj. Rate	Remarks

ACID ENGINEERS, Inc.

TREATMENT REPORT

Invoice No. 16753 Station Great Bend Date April 23, 19[illegible]

Owner Glen N. Rupe Lease Klein Well No. 1

Pool _____ County Barton State Kansas

Loc. 25-18-12w Formation Kansas City

Pipe Data—

T.D. 3403 P.B. 3170
Csg. Size 5½" O.D. Wt. 14#
Csg. Depth 3397 Sks. Cement _____
Tbg. Size x Depth _____
Packer Type x Annulus Vol. _____
Csg. Vol. 80 bbl. Tbg. Vol. _____

Perforating Data—

Shots/Ft. 4
From 3152 To 3156
From _____ To _____
From _____ To _____
From _____ To _____
From _____ To _____

Production—

	Oil	Water
Present		

Previous Treatments

New Perfs.

Detailed Record of Treatment

Materials Used

Quan.	Type	Quan.	Type
500 gal. SMF	15% Acid		

Fluids Used:

Acid	12 bbl.
Breakdown	
Frac.	
Flush	water 82 bbl.

Time	Pressure Csg.	Pressure Tbg.	Bbls. of Fluid Out of Tanks	Bbls. of Fluid In Form.	Inj. Rate	Remarks
8:45						Start acid down csg.
8:48			12			500 gal acid in, Start water
9:05	500		80			Hole loaded Stop pump
9:08	500					Start pump
9:11	2000					Stop pump
9:18	1900					Start pump
9:19	2300					Stop pump
9:24	2200					Bleed off
9:29	0					Start pump
9:31	2500					Stop pump
9:35	2100					Start pump
9:39	2000		81	1		Breaking Speed pump
9:40	1400		86	6	3	Feeding
9:42	1400		94	14	4	All Acid & 2 bbl overflush in form. Comple

Arrival Date 4-23 Time 8 AM Left Location: Date 4-23 Time 10:30AM Round Trip Miles 20

(See Reverse Side for Additional Treatment Remarks)

Equipment Used

Name	Unit No.	Press Drop	
Bob A	143	1150#	5 min drop
Jim	399	1100#	10 min drop
		1050#	15 min drop
			Bleed off

Treatment Resume

Avg. Inj. Rate	3	BPM
Avg. Trt. Press.	1400	psi
Hydraulic HP Used		
Total Fluid Pumped	94 bbl.	
Maximum Pressure	2500	psi
Minimum Pressure	1200	psi
I. S. I. P.	1300	psi

Glen Rupe
Owner's Representative

J. D. Strunk
Station Manager

J. D Strunk
Service Engineer

(Treatment Schedule)

Time	Pressure Csg.	Pressure Tbg.	Bbls. of Fluid Out of Tanks	Bbls. of Fluid In Form.	Inj. Rate	Remarks

Glen N. Rupe
COMPANY
Klein
LEASE
Ct. Bond
STATION
TY-0-3000
200 diesel
TREATMENT
4-22-70
DATE
P 0-5000
1
WELL NO
25-18-12
LOCATION
4HR-SPECIAL
0-1 Flo Ease
PRINTED IN U.S.A.
PRESSURE P.S.I.
Bleed pressure
2 bbl. over flush
in stop pump
Shut down
Start diesel
Start flush
Stop pump
3:00 P.M.

ACID ENGINEERS, INC.
ENGINEERS
COMPANY
Glen N. Rupe
LEASE
Klein
WELL NO.
1
STATION
Great Bend
LOCATION
25-18-12W
TREATMENT
3000 sm. 15% Acid
DATE
4-23-20
1 HR.
30 M.
45 M.
15 M.
500
1000
2000
3000
4000
5000
Complete
Cup.
Pressure
Pressure
Pressure

Glen N. Rupe
COMPANY
Klein
LEASE
1
WELL NO.
25-18-12
LOCATION
Ch. Bond
STATION
4HR-SPECIAL
TY-0-5000
200 diesel 5 0.1 Flo Ease
TREATMENT
4-22-70
DATE
P 0-5000
PRESSURE P.S.I.
PRINTED IN U.S.A.
Bleed pressure
2 bbl. over flush
in stop pump
Pump 200 diesel
Start diesel flush
Stop 100 diesel

ACID-3 INC.
ENGINEERS,
Glen N. Pepe
COMPANY
Klein
LEASE
1
WELL NO.
Great Bend
STATION
25-18-12W
LOCATION
3000 sm. 15% Acid
TREATMENT
4-23-70
DATE
1 HR.
30 M.
45 M.
15 M.
0
1000
2000
3000
4000
5000

ACID ENGINEERS, Inc.

TREATMENT REPORT

Invoice No. 16790 Station Great Bend Date April 24, 1970

Owner Glen N. Rupe Lease Klein Well No. 1

Pool Bailey Ext. County Barton State Kansas

Loc. 25-18-12w Formation Kansas City

Pipe Data—

T.D. 3403 P.B. 3175
Csg. Size 5½" Wt. 14#
Csg. Depth 3397 Sks. Cement
Tbg. Size Depth
Packer Type Annulus Vol.
Csg. Vol. 77 bbl. Tbg. Vol.

Perforating Data—

Shots/Ft. 4
From 3152 To 3156
From 3171 To 3173
From To
From To
From To

Production—

	Oil	Water
Present		

Previous Treatments

Detailed Record of Treatment

Materials Used

Quan.	Type	Quan.	Type
1000 gal.	S-15% NE		

Fluids Used

Acid	24
Breakdown	
Frac	
Flush Water	100

Time	Pressure Csg.	Pressure Tbg.	Bbls. of Fluid Out of Tanks	Bbls. of Fluid In Form.	Inj. Rate	Remarks: Pump 24 bbls. acid & 70 bbls. water
6:08	200		94	17		Holeloads Slow pump
6:13	300		97	20	.6	Speed pump
6:14	1100					
6:17	1100		106	29	2¼	Stop pump ISIP 1050
6:21	725					Start pump
6:23	1200					
6:25	1250					
6:27	1300		124	47	3	Flush in Stop pump
6:27	1150					ISIP
6:33	1025					6 min press drop Bleed press.

Arrival Date 4-24 Time 3:30PM Left Location: Date 4-24 Time 6:55PM Round Trip Miles 20

(See Reverse Side for Additional Treatment Remarks)

Equipment Used

Name	Unit No.	Name	Unit No.
Bob A. 143	[illegible]		
Don A	398		

Treatment Resume

Avg. Inj. Rate	2½	BPM
Avg. Trt. Press.	1200	psi
Hydraulic HP Used		
Total Fluid Pumped	124 bbl.	
Maximum Pressure	1300	psi
Minimum Pressure	200	psi
I. S. I. P.	1150	psi

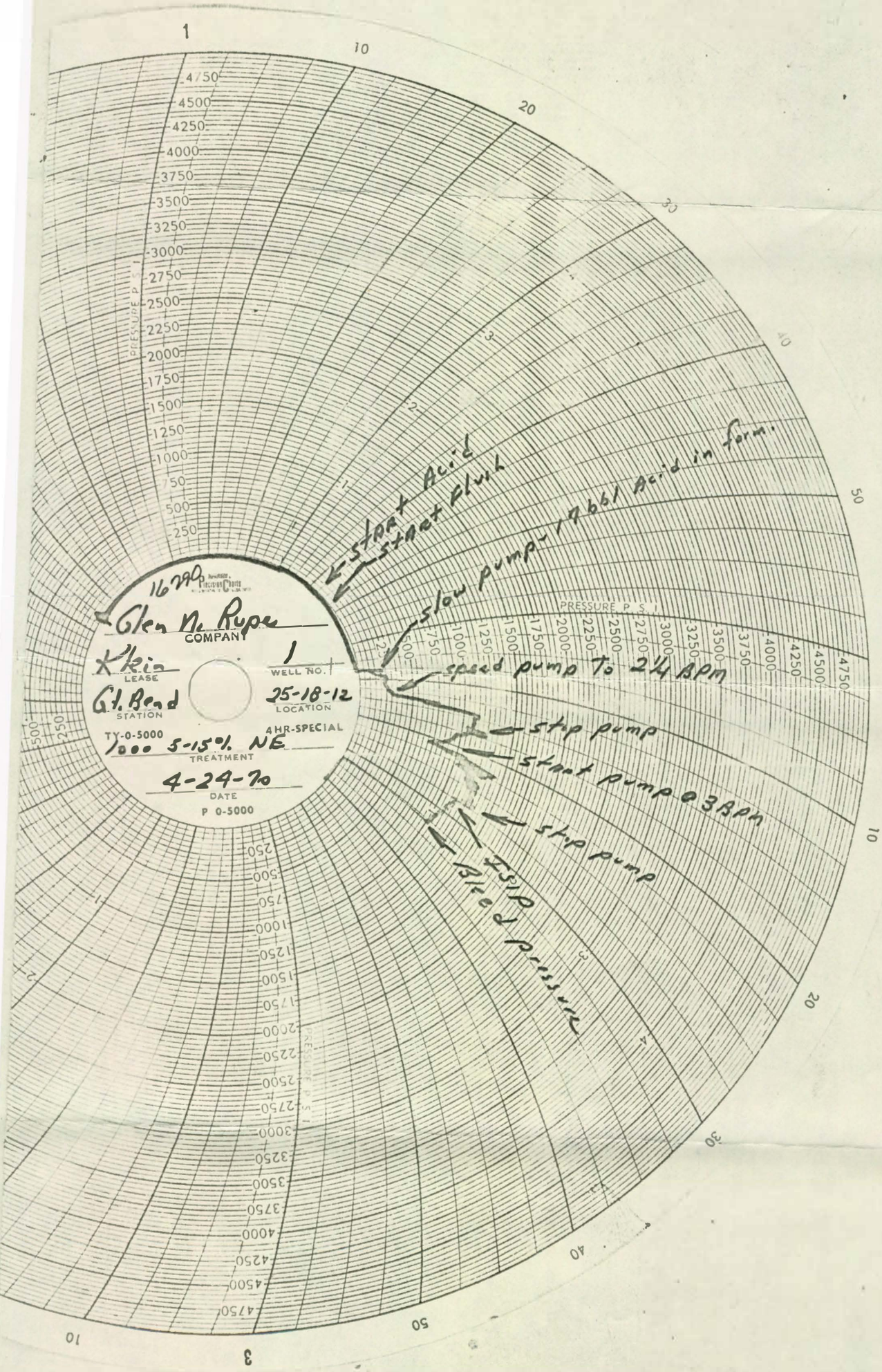
Glen Rupe
Owner's Representative

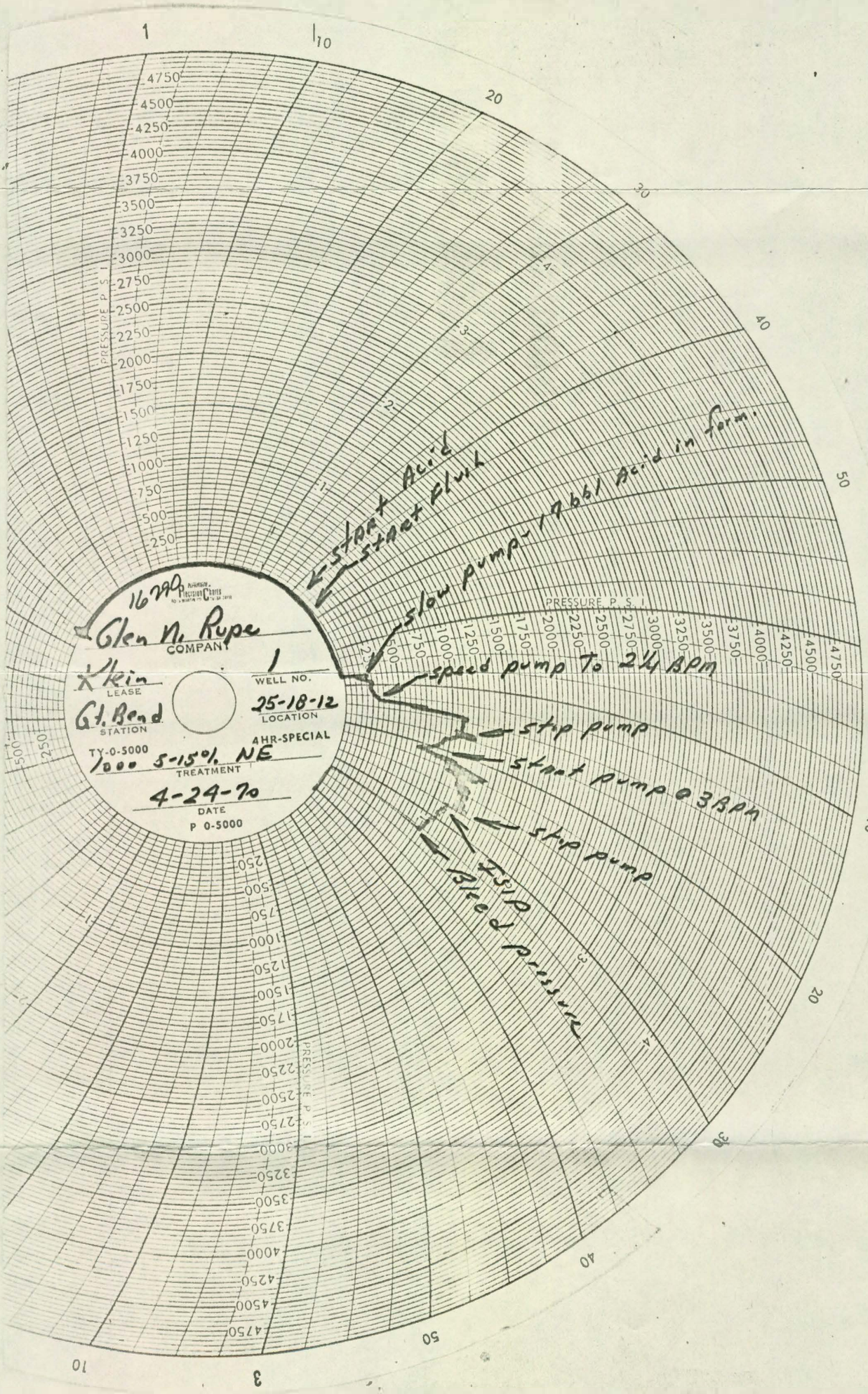
J. D. Strunk
Station Manager

Don Aumiller
Service Engineer

(Treatment Schedule)

Time	Pressure Csg.	Pressure Tbg.	Bbls. of Fluid Out of Tanks	Bbls. of Fluid In Form.	Inj. Rate	Remarks


16290
Glen M. Rupe
COMPANY
Klein
LEASE
1
WELL NO.
Gt. Bend
STATION
25-18-12
LOCATION
TY-0-5000
4HR-SPECIAL
5-15% NE
TREATMENT
4-24-70
DATE
P 0-5000
PRESSURE P.S.I.
start Acid
start fluid
slow pump - 14 bbl Acid in form.
speed pump to 24 BPM
stop pump
start pump @ 3 BPM
stop pump
stop
Bled pressure


16290
Glen N. Rupe
COMPANY
1
WELL NO.
Ykin
LEASE
25-18-12
LOCATION
Gt. Bend
STATION
4HR-SPECIAL
TY-0-5000
1000 5-15% NE
TREATMENT
4-24-70
DATE
P 0-5000
PRESSURE P.S.I.
start Acid
start flush
slow pump - 19 bbl Acid in form.
speed pump to 24 BPM
stop pump
start pump @ 3BPM
stop pump
Bled pressure

. ID ENGINEERS, Inc.

TREATMENT REPORT

Invoice No. G-16792 Station Great Bend Date April 27, 1970

Owner Glen N. Rupe Lease Klein Well No. 1

Pool Bailey Ext. County Barton State Ks.

Loc. 25-18-12 Formation Kansas City

Pipe Data—

T.D. _____ P.B. Rbp. 3175
Csg. Size 5½" Wt. 14#
Csg. Depth _____ Sks. Cement _____
Tbg. Size 2" EUE Depth 3167
Packer Type GBOT Annulus Vol. 61bbls.
Csg. Vol. packer @3162 Tbg. Vol. 12 bbls.
@3162

Perforating Data—

Shots/Ft. _____
From 3171 To 3173
From _____ To _____
From _____ To _____
From _____ To _____
From _____ To _____
From _____ To _____

Production—

	Oil	Water
Present		

Previous Treatments

Detailed Record of Treatment

Materials Used

Quan.	Type	Quan.	Type
1000	S-28% NE		
5 gals.	D-10		

Fluids Used

Acid	24
Breakdown	24
Frac	
Flush	water 72

Time	Pressure Csg.	Pressure Tbg.	Bbls. of Fluid Out of Tanks	Bbls. of Fluid In Form.	Inj. Rate	Remarks
8:52		300	13	1		Formation feeding - speed pump
8:54		1200				
8:55		900				Stop pump
8:58						Start pump
8:59		1150				
9:00		1200	24	12		Casing blowing- stop pump
9:01						Start treated water
9:02		1150				
9:04	BlOW	1350	54			Stop pump
9:32						Start water down annules
9:38	950	950	96		7	Stop pump - wait on water
9:43						Start pumping down annules
9:45	1250	1250				
9:51	1275	1275	120	47	4½	Flush in - stop pump

Arrival Date 4-27-70 Time 8:00 am Left Location: Date 4-27-70 Time 10:30am Round Trip Miles 20

(See Reverse Side for Additional Treatment Remarks)

Equipment Used

Name	Unit No.	Name	Pressure	Drop	Unit No.
Gary	151	9:51	1025	ISIP	
Bill		9:54	850	3 min. drop	
Don	398	9:56	800	5 min. drop	
		10:01	550	10 min. drop	
		10:06	125	15 min. drop	
		10:10	Vac	19 min. drop	

Treatment Resume

Avg. Inj. Rate	4	BPM
Avg. Trt. Press.	1000	psi
Hydraulic HP Used		
Total Fluid Pumped	120 bbl.	
Maximum Pressure	1350	psi
Minimum Pressure		psi
I. S. I. P.	1025	psi

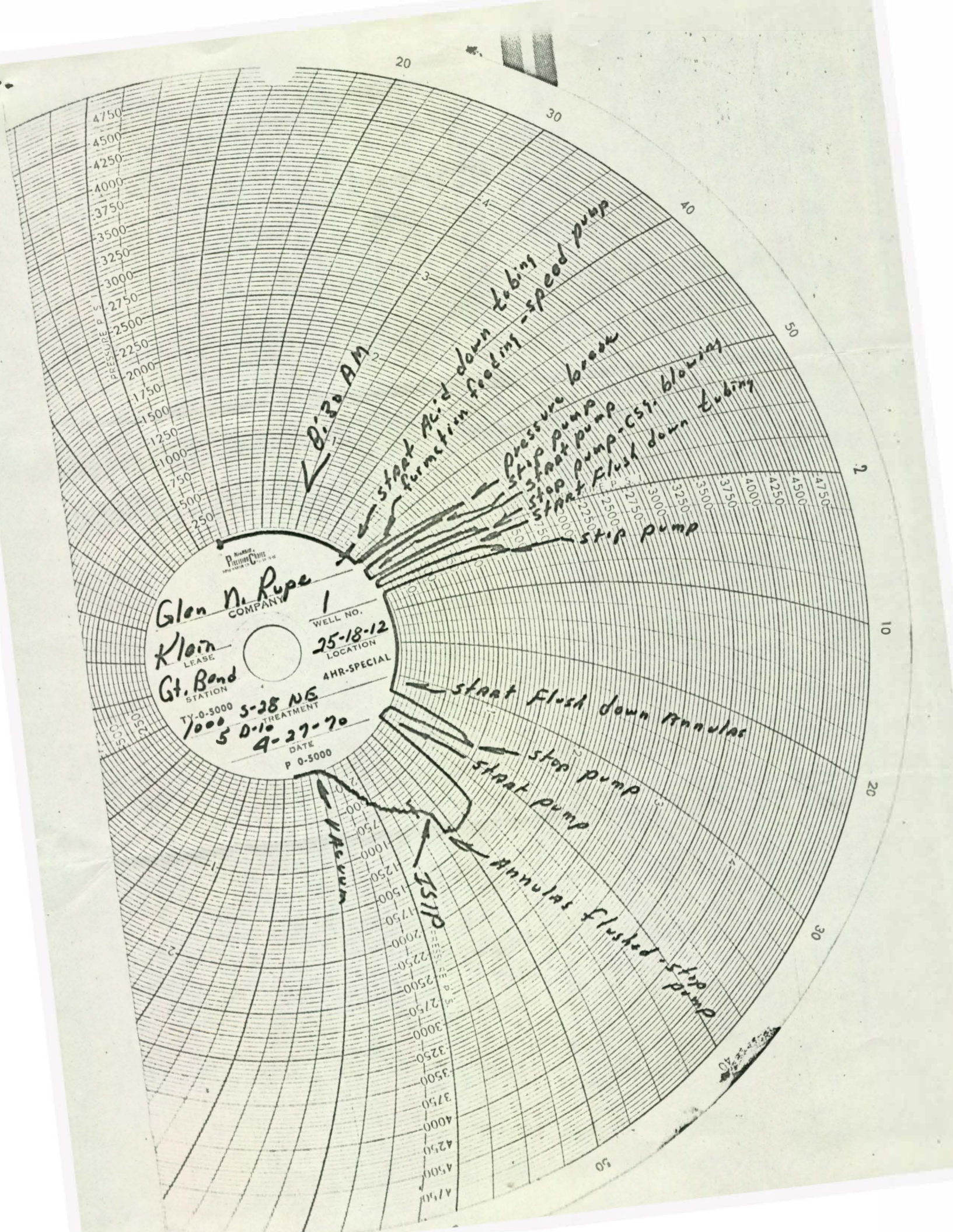
Glen Rupe
Owner's Representative

J. D. STrunk
Station Manager

Don Aumiller
Service Engineer

(Treatment Schedule)

Time	Pressure Csg.	Pressure Tbg.	Bbls. of Fluid Out of Tanks	Bbls. of Fluid In Form.	Inj. Rate	Remarks


Glen N. Rupe
COMPANY
1
WELL NO.
Klein
LEASE
25-18-12
LOCATION
Gt. Bend
STATION
4HR-SPECIAL
TY-0-5000
1000
S-28 NE
TREATMENT
5 D-10
4-27-70
DATE
P 0-5000
PRESSURE PSI
8:30 AM
start acid down tubing
formation feeding - speed pump
pressure break
stop pump
start pump
stop pump - csg. blowing
start flush down tubing
stop pump
start flush down annulas
stop pump
start pump
annulas flushed - stop pump
ISIP
vacuum