Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company J.A. Allison Lease & Well No. Caskey #1

Elevation 3134 Kelly Bushings Formation Marmaton Effective Pay Ft. Ticket No. 17869

Date 4-3-74 Sec. 33 Twp. 21S Range 35W County Kearny State Kansas

Test Approved by Robert E. McCann Western Representative Chuck Wedgewood

Formation Test No. 1 O.K. X Misrun Interval Tested From 4518' to 4554' Total Depth 4554'

Size Main Hole 7 7/8" Rat Hole Conv. B.T. X Damaged Yes X No Conv. B.T. X Damaged Yes X No

Top Packer Depth 4513 Ft. Size 6 3/4" Bottom Packer Depth 4518 Ft. Size 6 3/4"

Straddle No Conv. B.T. Damaged Yes No Packer Depth Ft. Size

Tool Size 5½"O.D Tool Joint Size 4½"FH Anchor Length 36 Ft. Size 5½"O.D. Surface Choke Size 1/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4547 Ft. Clock No. 8378 Depth 4550 Ft. Clock No. 6806

Top Make Kuster Cap. 6200 No. 1562 Inside Outside Bottom Make Kuster Cap. 6000 No. 1560 Inside Outside

Below Straddle: Depth Rec. No. Clock No. Inside Outside Depth Ft. Rec. No. Clock No Inside Outside

Time Set Packer 12:27 A.M

Tool Open I.F.P. From 12:30 M. to 1:00A M. Hr. 30 Min. From (B) 48 P.S.I. To (C) 55 P.S.I.

Tool Closed I.C.I.P. From 1:00 M. to 1:30A M. Hr. 30 Min (D) 1033 P.S.I.

Tool Open F.F.P. From 1:30 M. to 2:30A.M. 1 Hr. Min. From (E) 67 P.S.I. To (F) 67 P.S.I.

Tool Closed F.C.I.P. From 2:30 M. to 3:15A.M. Hr. 45 Min. (G) 976 P.S.I.

Initial Hydrostatic Pressure (A) 2516 P.S.I. Final Hydrostatic Pressure (H) 2452 P.S.I. Maximum Temp. 110

INFORMATION

BLOW Very weak initial flow period, None final flow period

Did Well Flow Yes X No Recovery Total Ft. 30 feet mud

Reversed Out Yes X No Mud Type Starch Viscosity 41 Weight 10 Water Loss 16.4 cc. Chlorides

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint No Jars: Size In. Make Ser. No.

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where?

DRILLING CONTRACTOR Length Drill Pipe? 3699 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size In.

Length Weight Pipe 750 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size In. Length Drill Collars Ft. I.D. Drill Collars In.

Tool Joint Size In. Length D.S.T. Tool 55 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 4-3-74 Test Ticket No. 17869

Recorder No. 1562 Capacity 6200 Location 4547 Ft.

Clock No. 8378 Elevation 3134 Kelly Bushings Well Temperature 110 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2516	P.S.I.
B	First Initial Flow Pressure	48	P.S.I.
C	First Final Flow Pressure	55	P.S.I.
D	Initial Closed-in Pressure	1033	P.S.I.
E	Second Initial Flow Pressure	67	P.S.I.
F	Second Final Flow Pressure	67	P.S.I.
G	Final Closed-in Pressure	976	P.S.I.
H	Final Hydrostatic Mud	2452	P.S.I.

	Time Given	Time Computed
Open Tool	12:27 AM	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	45 Mins.	45 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	48
P 2 5	49
P 3 10	54
P 4 15	54
P 5 20	54
P 6 25	55
P 7 30	55
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	55
3	199
6	494
9	722
12	837
15	907
18	949
21	979
24	1006
27	1021
30	1033

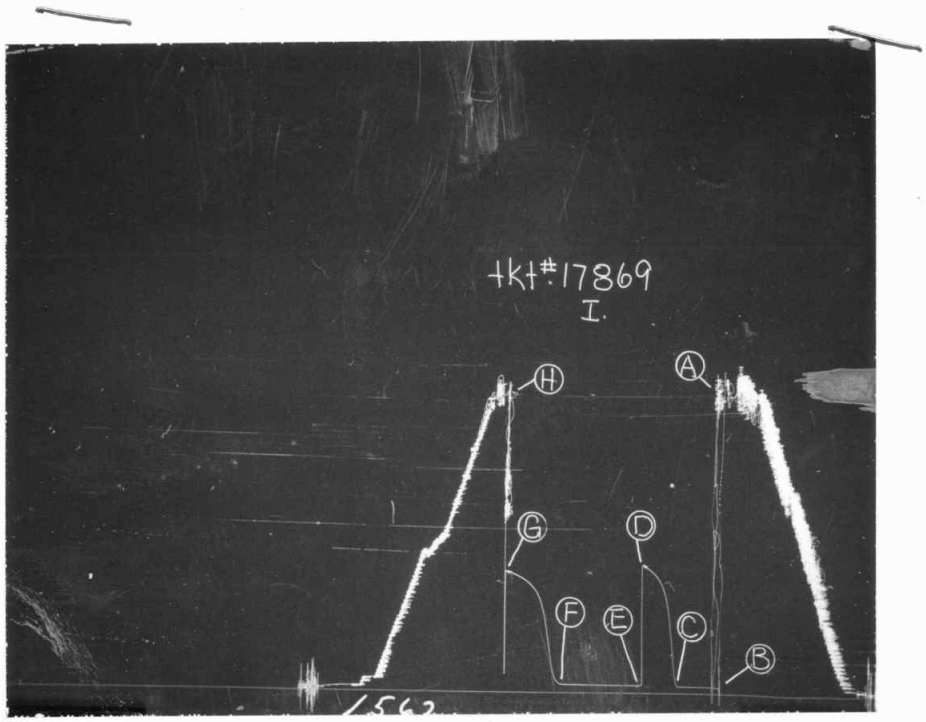
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	67
5	67
10	67
15	67
20	67
25	67
30	67
35	67
40	67
45	67
50	67
55	67
60	67

Final Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	67
3	96
6	175
9	364
12	572
15	707
18	783
21	834
24	867
27	894
30	915
33	934
36	949
39	961
42	964
45	976

COMPANY J. A. Allison LEASE AND WELL NO. Caskey #1 SEC. 33 TWP. 21S RGE. 35W TEST NO. 1 DATE 4-3-74



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2408	2516	PSI
(B)	First Initial Flow Pressure	51	48	PSI
(C)	First Final Flow Pressure	51	55	PSI
(D)	Initial Closed-in Pressure	1024	1033	PSI
(E)	Second Initial Flow Pressure	51	67	PSI
(F)	Second Final Flow Pressure	51	67	PSI
(G)	Final Closed-in Pressure	963	976	PSI
(H)	Final Hydrostatic Mud	2377	2452	PSI

WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company J. A. Allison Lease & Well No. Caskey #1

Elevation 3134 Kelly Bushings Formation Marmaton Effective Pay Ft. Ticket No. 17870

Date 4-3-74 Sec. 33 Twp. 21S Range 35W County Kearny State Kansas

Test Approved by Robert E. McCann Western Representative Chuck Wedgewood

Formation Test No. 2 O.K. X Misrun Interval Tested From ~~4548' 4538'~~ 4548' to ~~3472'~~ 4572' Total Depth 4572'

Size Main Hole 7 7/8" Rat Hole Conv. B.T. X Damaged Yes X No Conv. B.T. X Damaged Yes X No

Top Packer Depth 4543 Ft. Size 6 3/4" Bottom Packer Depth 4548 Ft. Size 6 3/4"

Straddle No Conv. B.T. Damaged Yes No Packer Depth Ft. Size

Tool Size 5½"O.D. Tool Joint Size 4½"FH Anchor Length 24 Ft. Size 5½"O.D. Surface Choke Size 1/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4563 Ft. Clock No. 8378 Depth 4566 Ft. Clock No. 6806

Top Make Kuster Cap. 6200 No. 1562 Inside ~~Outside~~ Bottom Make Kuster Cap. 6000 No. 1560 ~~Inside~~ Outside

Below Straddle: Depth Rec. No. Clock No. Inside Outside Depth Ft. Rec. No. Clock No. Inside Outside

Time Set Packer 5:45 P.M.

Tool Open I.F.P. From 5:47 M. to 6:17P M. Hr. 30 Min. From (B) 51 P.S.I. To (C) 196 P.S.I.

Tool Closed I.C.I.P. From 6:17 M. to 6:47P M. Hr. 30 Min (D) 1030 P.S.I.

Tool Open F.F.P. From 6:47 M. to 7:47P M. 1 Hr. Min. From (E) 217 P.S.I. To (F) 403 P.S.I.

Tool Closed F.C.I.P. From 7:47 M. to 8:32P M. Hr. 45 Min. (G) 1015 P.S.I.

Initial Hydrostatic Pressure (A) 2455 P.S.I. Final Hydrostatic Pressure (H) 2424 P.S.I. Maximum Temp.

INFORMATION

BLOW Weak increased to good on both flow periods

Did Well Flow Yes X No Recovery Total Ft. 750 feet muddy salt water

Reversed Out Yes X No Mud Type Starch Viscosity 48 Weight 10.2 Water Loss 9.6 cc. Chlorides

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint No Jars: Size In. Make Ser. No.

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where?

DRILLING CONTRACTOR Length Drill Pipe? 3778 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size In.

Length Weight Pipe 750 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size In. Length Drill Collars Ft. I.D. Drill Collars In.

Tool Joint Size In. Length D.S.T. Tool 44 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 4-3-74 Test Ticket No. 17870

Recorder No. 1562 Capacity 6200 Location 4563 Ft.

Clock No. 8378 Elevation 3134 Kelly Bushings Well Temperature 110 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2455 P.S.I.		Open Tool	5:45 P.M	
B	First Initial Flow Pressure	51 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	196 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1030 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	217 P.S.I.		Final Closed-in Pressure	45 Mins.	45 Mins.
F	Second Final Flow Pressure	403 P.S.I.				
G	Final Closed-in Pressure	1015 P.S.I.				
H	Final Hydrostatic Mud	2424 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

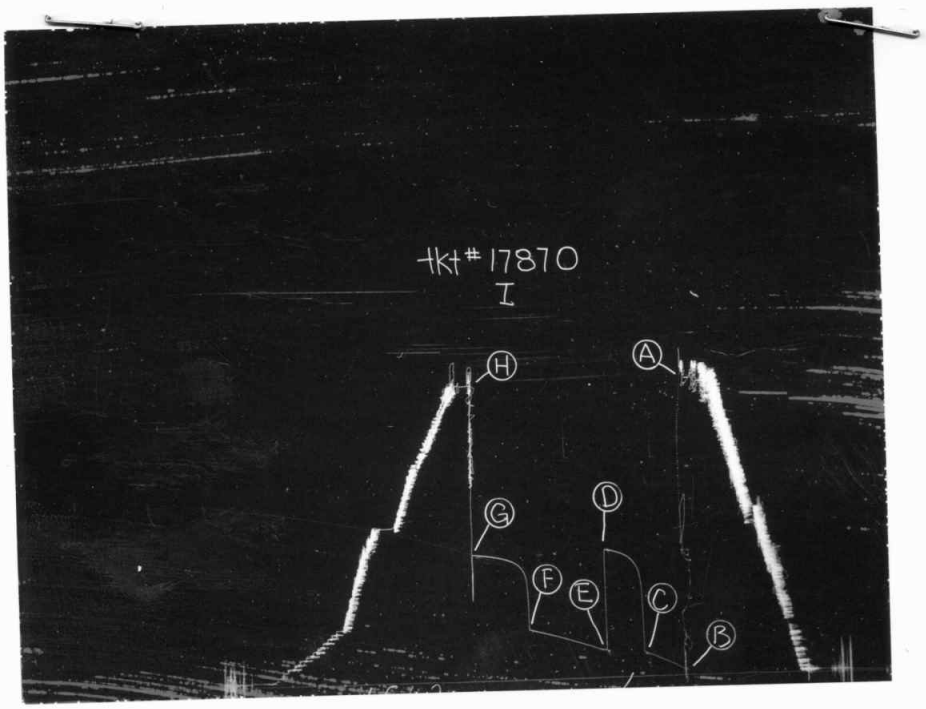
Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	51	0	196	0	217	0	403
P 2 5	75	3	804	5	226	3	843
P 3 10	102	6	897	10	247	6	900
P 4 15	123	9	940	15	265	9	931
P 5 20	147	12	964	20	283	12	949
P 6 25	172	15	985	25	298	15	964
P 7 30	196	18	1000	30	316	18	973
P 8		21	1010	35	331	21	982
P 9		24	1018	40	346	24	988
P10		27	1024	45	361	27	994
P11		30	1030	50	376	30	1000
P12				55	391	33	1003
P13				60	403	36	1009
P14						39	1012
P15						42	1013
P16						45	1015
P17							
P18							
P19							
P20							

COMPANY J. A. Allison LEASE AND WELL NO. Caskey #1 SEC. 33 TWP. 21S RGE. 35W TEST NO. 2 DATE 4-3-74



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2424	2455	PSI
(B)	First Initial Flow Pressure	51	51	PSI
(C)	First Final Flow Pressure	180	196	PSI
(D)	Initial Closed-in Pressure	1021	1030	PSI
(E)	Second Initial Flow Pressure	210	217	PSI
(F)	Second Final Flow Pressure	391	403	PSI
(G)	Final Closed-in Pressure	993	1015	PSI
(H)	Final Hydrostatic Mud	2393	2424	PSI

WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company J. A. Allison Lease & Well No. Caskey #1

Elevation 3134 Kelly Bushings Formation Morrow Effective Pay Ft. Ticket No. 17871

Date 4-5-74 Sec. 33 Twp. 21S Range 35W County Kearny State Kansas

Test Approved by Robert E. McCann Western Representative Chuck Wedgewood

Formation Test No. 3 O.K. X Misrun Interval Tested From 4846' to 4860' Total Depth 4860'

Size Main Hole 7 7/8" Rat Hole Conv. B.T. X Damaged Yes X No Conv. B.T. X Damaged Yes X No

Top Packer Depth 4841 Ft. Size 6 3/4" Bottom Packer Depth 4846 Ft. Size 6 3/4"

Straddle No Conv. B.T. Damaged Yes No Packer Depth Ft. Size

Tool Size 5½"O.D. Tool Joint Size 4½"FH Anchor Length 14 Ft. Size 5½"O.D Surface Choke Size 1/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4851 Ft. Clock No. 8378 Depth 4854 Ft. Clock No. 6806

Top Make Kuster Cap. 6200 No. 1562 Inside Outside Bottom Make Kuster Cap. 6000 No. 1560 Inside Outside

Below Straddle: Depth Rec. No. Clock No. Inside Outside Depth Ft. Rec. No. Clock No. Inside Outside

Time Set Packer 9:34 P. M

Tool Open I.F.P. From 9:37 M. to 10:07P M. Hr. 30 Min. From (B) 39 P.S.I. To (C) 54 P.S.I.

Tool Closed I.C.I.P. From 10:07 M. to 10:37P M. Hr. 30 Min (D) 1218 P.S.I.

Tool Open F.F.P. From 10:37 M. to 11:37P M. 1 Hr. Min. From (E) 69 P.S.I. To (F) 93 P.S.I.

Tool Closed F.C.I.P. From 11:37 M. to 12:22A M. Hr. 45 Min. (G) 1215 P.S.I.

Initial Hydrostatic Pressure (A) 2548 P.S.I. Final Hydrostatic Pressure (H) 2544 P.S.I. Maximum Temp. 113

INFORMATION

BLOW Weak increased to fair

Did Well Flow Yes X No Recovery Total Ft. 178 feet muddy oil

Reversed Out Yes X No Mud Type Starch Viscosity 44 Weight 9.6 Water Loss 10 cc. Chlorides

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint No Jars: Size In. Make Ser. No.

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where?

DRILLING CONTRACTOR Length Drill Pipe? 4076 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size In.

Length Weight Pipe 750 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size In. Length Drill Collars Ft. I.D. Drill Collars In.

Tool Joint Size In. Length D.S.T. Tool 34 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 4-5-74 Test Ticket No. 17872

Recorder No. 1562 Capacity 6200 Location 4851 Ft.

Clock No. 8378 Elevation 3134 Kelly Bushings Well Temperature 113 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2548 P.S.I.		Open Tool	9:37 P. M	
B	First Initial Flow Pressure	39 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	54 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1218 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	69 P.S.I.		Final Closed-in Pressure	45 Mins.	45 Mins.
F	Second Final Flow Pressure	93 P.S.I.				
G	Final Closed-in Pressure	1215 P.S.I.				
H	Final Hydrostatic Mud	2544 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	39
P 2 5	39
P 3 10	39
P 4 15	45
P 5 20	48
P 6 25	51
P 7 30	54
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	54
3	93
6	195
9	304
12	900
15	1099
18	1157
21	1181
24	1196
27	1209
30	1218

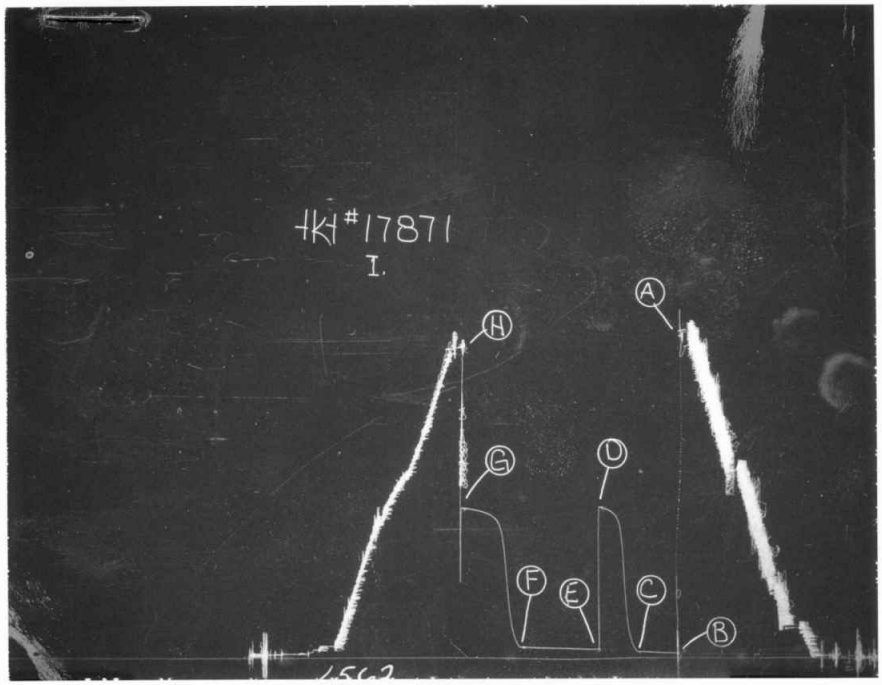
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	69
5	69
10	69
15	75
20	78
25	81
30	81
35	83
40	84
45	84
50	87
55	90
60	93

Final Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	93
3	144
6	322
9	668
12	963
15	1078
18	1124
21	1151
24	1166
27	1175
30	1184
33	1193
36	1199
39	1203
42	1209
45	1215

COMPANY J. A. Allison LEASE AND WELL NO. Caskey #1 SEC. 33 TWP. 21S RGE. 35W TEST NO. 3 DATE 4-5-74



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2593	2548	PSI
(B)	First Initial Flow Pressure	39	39	PSI
(C)	First Final Flow Pressure	45	54	PSI
(D)	Initial Closed-in Pressure	1221	1218	PSI
(E)	Second Initial Flow Pressure	81	69	PSI
(F)	Second Final Flow Pressure	90	93	PSI
(G)	Final Closed-in Pressure	1190	1215	PSI
(H)	Final Hydrostatic Mud	2547	2544	PSI