WESTERN TESTERS

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

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

Elevation 1157 Kelly Bushings Formation Layton Effective Pay Ft. Ticket No. 17901

Date 8-14-73 Sec. 8 Twp. 35S Range 3W County Sumner State Kansas

Test Approved by Robert E. McCann Western Representative Norman Allen

Formation Test No. 1 O.K. X Misrun Interval Tested From 3699' to 3716' Total Depth 3716'

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

Packer Depth 3694 Ft. Size 6 3/4" Packer Depth 3699 Ft. Size 6 3/4"

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 17 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3709 Ft. Clock No. 8476 Depth 3712 Ft. Clock No. 9102

Top Make Kuster Cap. 4150 No. 969 Inside ~~Outside~~ Bottom Make Kuster Cap. 4000 No. 3473 ~~Inside~~ Outside

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

Top Make Cap No. Inside Outside Bottom Make Cap No. Inside Outside

Time Set Packer 9:27 P. M

Tool Open I.F.P. From 9:30 M. to 10:00P M. Hr. 30 Min. From (B) 33 P.S.I. To (C) 232 P.S.I.

Tool Closed I.C.I.P. From 10:00 M. to 10:30P M. Hr. 30 Min. (D) 1640 P.S.I.

Tool Open F.F.P. From 10:30 M. to 11:00P M. Hr. 30 Min. From (E) 239 P.S.I. To (F) 394 P.S.I.

Tool Closed F.C.I.P. From 11:00 M. to 11:30P M. Hr. 30 Min. (G) 1571 P.S.I.

Initial Hydrostatic Pressure (A) 1979 P.S.I. Final Hydrostatic Pressure (H) 1970 P.S.I.

SURFACE INFORMATION	Size Choke 3/4 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Fair diminishing slightly at end of test Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 720 feet salt water

Reversed Out Yes X No Mud Type Starch Viscosity 45 Weight 10 Water Loss 14 cc. Maximum Temp. 123 °F

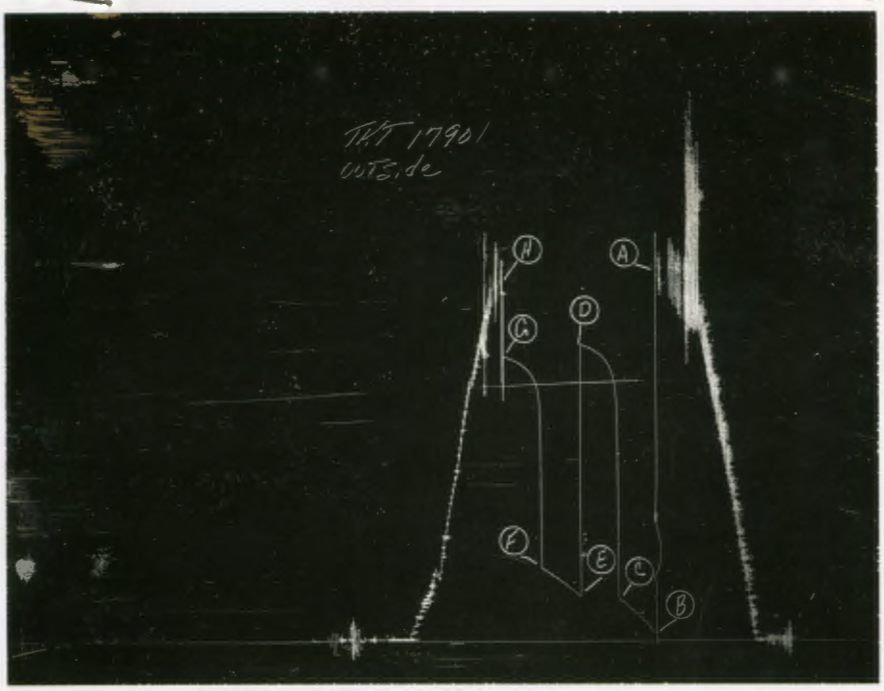
Type Circ. Sub Pin Safety Joint No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where?

Length Drill Pipe 2809 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I.D. Drill Collars in. Length D.S.T. Tool 37 ft.

Remarks Spudded thru tight spot 270'off bottom



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1980	1979	PSI
(B)	First Initial Flow Pressure	50	33	PSI
(C)	First Final Flow Pressure	245	232	PSI
(D)	Initial Closed-in Pressure	1655	1640	PSI
(E)	Second Initial Flow Pressure	255	239	PSI
(F)	Second Final Flow Pressure	405	394	PSI
(G)	Final Closed-in Pressure	1580	1571	PSI
(H)	Final Hydrostatic Mud	1980	1970	PSI

WESTERN TESTING CO., INC.

Pressure Data

Date 8-14-73 Test Ticket No. 17901

Recorder No. 969 Capacity 4150 Location 3709 Ft.

Clock No. 8476 Elevation 1157 Kelly Bushings Well Temperature 3709 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1979 P.S.I.	Open Tool	9:27 P. M.	
B First Initial Flow Pressure	33 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	232 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1640 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	239 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	394 P.S.I.			
G Final Closed-in Pressure	1571 P.S.I.			
H Final Hydrostatic Mud	1970 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: 6 Inc.	Breakdown: 10 Inc.	Breakdown: 6 Inc.	Breakdown: 10 Inc.
of 5 mins. and a	of 3 mins. and a	of 5 mins. and a	of 3 mins. and a
final inc. of 0 Min.	final inc. of 0 Min.	final inc. of 0 Min.	final inc. of 0 Min.

Point Mins.	First Flow Press.	Initial Shut-In Point Minutes	Initial Shut-In Press.	Second Flow Point Minutes	Second Flow Press.	Final Shut-In Point Minutes	Final Shut-In Press.
P 1 0	33	0	232	0	239	0	394
P 2 5	67	3	1014	5	261	3	1356
P 3 10	106	6	1479	10	286	6	1448
P 4 15	143	9	1531	15	311	9	1484
P 5 20	176	12	1567	20	343	12	1511
P 6 25	208	15	1586	25	364	15	1529
P 7 30	232	18	1604	30	394	18	1539
P 8		21	1616			21	1549
P 9		24	1627			24	1558
P10		27	1634			27	1564
P11		30	1640			30	1571
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WESTERN TESTERS

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

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

Elevation 1157 Kelly Bushings Formation Kansas City Effective Pay ____ Ft. Ticket No. 17902

Date 8-15-73 Sec. 8 Twp. 35S Range 3W County Sumner State Kansas

Test Approved by Robert E. McCann Western Representative Norman Allen

Formation Test No. 2 O.K. X Misrun ____ Interval Tested From 3751' to 3784' Total Depth 3784'

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

Packer Depth 3746 Ft. Size 6 3/4" Packer Depth 3751 Ft. Size 6 3/4"

Straddle ____ Yes ____ No X Conv. ____ B.T. ____ Damaged ____ Yes ____ No

Packer Depth ____ Ft. Size ____

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 33 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3777 Ft. Clock No. 8476 Depth 3780 Ft. Clock No. 9102

Top Make Kuster Cap. 4150 No. 969 Inside Outside Bottom Make Kuster Cap. 4000 No. 3473 Inside Outside

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

Top Make ____ Cap. ____ No. ____ Inside Outside Bottom Make ____ Cap. ____ No. ____ Inside Outside

Time Set Packer 3:12 P.M

Tool Open I.F.P. From 3:15 M. to 3:45P.M. Hr. 30 Min. From (B) 8 P.S.I. To (C) 22 P.S.I.

Tool Closed I.C.I.P. From 3:45 M. to 4:15P.M. Hr. 30 Min. (D) 1826 P.S.I.

Tool Open F.F.P. From 4:15 M. to 4:45P.M. Hr. 30 Min. From (E) 26 P.S.I. To (F) 37 P.S.I.

Tool Closed F.C.I.P. From 4:45 M. to 5:15P.M. Hr. 30 Min. (G) 1812 P.S.I.

Initial Hydrostatic Pressure (A) 2002 P.S.I. Final Hydrostatic Pressure (H) 1974 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	3/4 In.		M.	
			M.	
			M.	

BLOW Weak 30 minutes Bottom Choke Size 3/4 In.

Did Well Flow ____ Yes X No Recovery Total Ft. 15 feet very slightly oil cut mud

50 feet drilling mud

Reversed Out ____ Yes X No Mud Type Starch Viscosity 41 Weight 9.8 Water Loss 8. cc. Maximum Temp. 123 °F

Type Circ. Sub Pin Safety Joint No Jars: Size ____ Make ____ Ser. No. ____

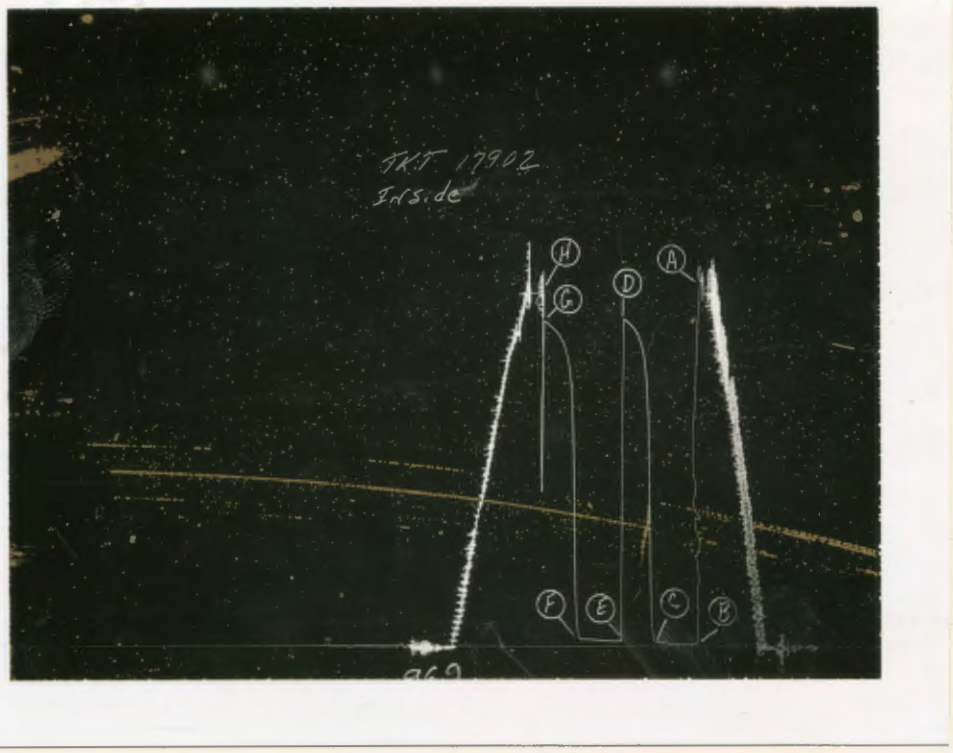
EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where? ____

Length Drill Pipe 2961 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars - ft.

I.D. Drill Collars ____ in. Length D.S.T. Tool 53 ft.

Remarks

FORM WTC-3



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2010	2002	PSI
(B)	First Initial Flow Pressure	20	8	PSI
(C)	First Final Flow Pressure	40	22	PSI
(D)	Initial Closed-in Pressure	1830	1826	PSI
(E)	Second Initial Flow Pressure	40	26	PSI
(F)	Second Final Flow Pressure	50	37	PSI
(G)	Final Closed-in Pressure	1820	1812	PSI
(H)	Final Hydrostatic Mud	1990	1974	PSI

WESTERN TESTING CO., INC.
Pressure Data

Date 8-15-73 Test Ticket No. 17902

Recorder No. 969 Capacity 4150 Location 3777 Ft.

Clock No. 8476 Elevation 1157 Kelly Bushings Well Temperature 123 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2002 P.S.I.	Open Tool	3:12 P. M.	
B	First Initial Flow Pressure	8 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	22 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D	Initial Closed-in Pressure	1826 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	26 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	37 P.S.I.			
G	Final Closed-in Pressure	1812 P.S.I.			
H	Final Hydrostatic Mud	1974 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: 9 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

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

	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	8	0	22	0	26	0	37
P 2	5	8	3	40	5	26	3	37
P 3	10	8	6	61	10	28	6	276
P 4	15	10	9	1053	15	32	9	1186
P 5	20	13	12	1550	20	33	12	1575
P 6	25	17	15	1683	25	36	15	1660
P 7	30	22	18	1740	30	37	18	1717
P 8			21	1780			21	1750
P 9			24	1800			24	1772
P10			27	1826			27	1792
P11							30	1812
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

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

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

Elevation 1157 Kelly Bushings Formation Simpson Effective Pay Ft. Ticket No. 17906

Date 8-22-73 Sec. 8 Twp. 35S Range 3W County Sumner State Kansas

Test Approved by Robert E. McCann Western Representative Norman Allen

Formation Test No. 5 O.K. X Misrun Interval Tested From 4847' to 4864' Total Depth 4864'

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

Packer Depth 4842 Ft. Size 6 3/4" Packer Depth 4847 Ft. Size 6 3/4"

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 17 Ft. Size 5 1/2" O.D.

RECORDERS Depth 4857 Ft. Clock No. 8476 Depth 4860 Ft. Clock No. 9102

Top Make Kuster Cap. 4150 No. 969 Inside ~~Outside~~ Bottom Make Kuster Cap. 4000 No. 3476 ~~Inside~~ Outside

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

Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer 6:12 P.M

Tool Open I.F.P. From 6:15 M. to 6:45P.M. Hr. 30 Min. From (B) 31 P.S.I. To (C) 34 P.S.I.

Tool Closed I.C.I.P. From 6:45 M. to 7:15P.M. Hr. 30 Min. (D) 542 P.S.I.

Tool Open F.F.P. From 7:15 M. to 7:45P.M. Hr. 30 Min. From (E) 38 P.S.I. To (F) 40 P.S.I.

Tool Closed F.C.I.P. From 7:45 M. to 8:15P.M. Hr. 30 Min. (G) 684 P.S.I.

Initial Hydrostatic Pressure (A) 2567 P.S.I. Final Hydrostatic Pressure (H) 2548 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	3/4 In.		M.	
			M.	
			M.	

BLOW Fair diminishing slightly @ end of test Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 570 feet gas in pipe

30 feet gas cut mud

60 feet very slightly oil and gas cut mud

Reversed Out Yes X No Mud Type Starch Viscosity 47 Weight 9.9 Water Loss 12.4 cc. Maximum Temp. 137 °F

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

EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where?

Length Drill Pipe 3947 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I.D. Drill Collars in. Length D.S.T. Tool 37 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date 8-22-73 Test Ticket No. 17906

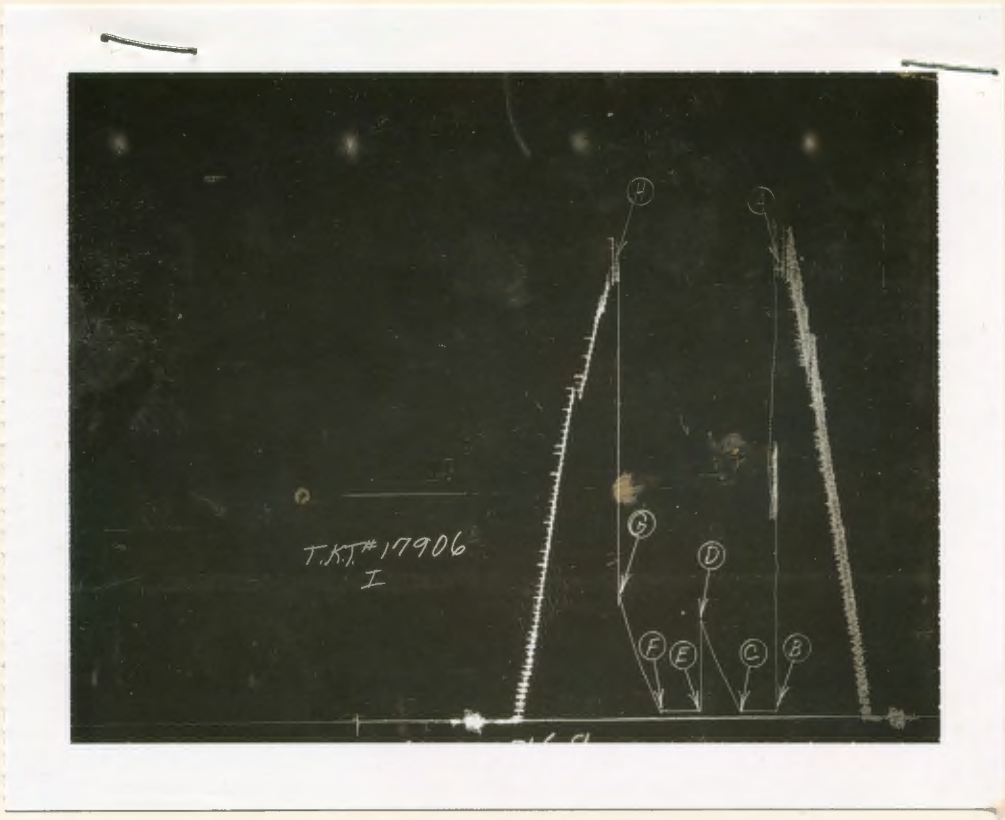
Recorder No. 969 Capacity 4150 Location 4857 Ft.

Clock No. 8476 Elevation 1157 Kelly Bushings Well Temperature 137 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2567 P.S.I.	Open Tool	6:15 P. M	
B First Initial Flow Pressure	31 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	34 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	542 P.S.I.	Second Flow Pressure	30 Mins.	32 Mins.
E Second Initial Flow Pressure	38 P.S.I.	Final Closed-in Pressure	30 Mins.	31 Mins.
F Second Final Flow Pressure	40 P.S.I.			
G Final Closed-in Pressure	684 P.S.I.			
H Final Hydrostatic Mud	2548 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 10 Inc.		Breakdown: 6 Inc.		Breakdown: 10 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 2 Min.		final inc. of 1 Min.	
Point Mins.	**Press.**	**Point Minutes**	**Press.**	**Point Minutes**	**Press.**	**Point Minutes**	**Press.**
P 1 0	31	0	34	0	38	0	40
P 2 5	31	3	77	5	38	3	87
P 3 10	34	6	126	10	40	6	137
P 4 15	34	9	174	15	39	9	192
P 5 20	34	12	221	20	37	12	241
P 6 25	34	15	270	25	38	15	297
P 7 30	34	18	313	30	39	18	354
P 8		21	368	32	40	21	420
P 9		24	418			24	497
P10		27	481			27	579
P11		30	542			30	663
P12						31	684
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2560	2567	PSI
(B)	First Initial Flow Pressure	40	31	PSI
(C)	First Final Flow Pressure	40	34	PSI
(D)	Initial Closed-in Pressure	545	542	PSI
(E)	Second Initial Flow Pressure	50	38	PSI
(F)	Second Final Flow Pressure	50	40	PSI
(G)	Final Closed-in Pressure	695	684	PSI
(H)	Final Hydrostatic Mud	2560	2548	PSI

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

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

Elevation 1157 Kelly Bushings Formation Simpson Effective Pay Ft. Ticket No. 17907

Date 8-23-73 Sec. 8 Twp. 35S Range 3W County Sumner State Kansas

Test Approved by Robert E. McCann Western Representative Norman Allen

Formation Test No. 6 O.K. X Misrun Interval Tested From 4847' to 4866' Total Depth 4866'

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

Packer Depth 4842 Ft. Size 6 3/4" Packer Depth 4847 Ft. Size 6 3/4"

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 19 Ft. Size 5 1/2" O.D.

RECORDERS Depth 4859 Ft. Clock No. 8476 Depth 4862 Ft. Clock No. 9102

Top Make Kuster Cap. 4150 No. 969 Inside Outside Bottom Make Kuster Cap. 4000 No. 3473 Inside Outside

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

Top Make Cap No. Inside Outside Bottom Make Cap No. Inside Outside

Time Set Packer 10:42 A.M

Tool Open I.F.P. From 10:45 M. to 11:15A M. Hr. 30 Min. From (B) 44 P.S.I. To (C) 59 P.S.I.

Tool Closed I.C.I.P. From 11:15 M. to 11:45A M. Hr. 30 Min. (D) 1705 P.S.I.

Tool Open F.F.P. From 11:45 M. to 12:45P M. Hr. 60 Min. From (E) 74 P.S.I. To (F) 85 P.S.I.

Tool Closed F.C.I.P. From 12:45 M. to 1:45P. M. Hr. 60 Min. (G) 1701 P.S.I.

Initial Hydrostatic Pressure (A) 2559 P.S.I. Final Hydrostatic Pressure (H) 2540 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	3/4 In.		M.	
			M.	
			M.	

BLOW Fair thru out test Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 1770 feet gas in pipe

90 feet very slightly oil and gas cut mud

30 feet muddy water 30 feet watery mud

Reversed Out Yes X No Mud Type Starch Viscosity 45 Weight 9.7 Water Loss 11.6 cc. Maximum Temp. 137 °F

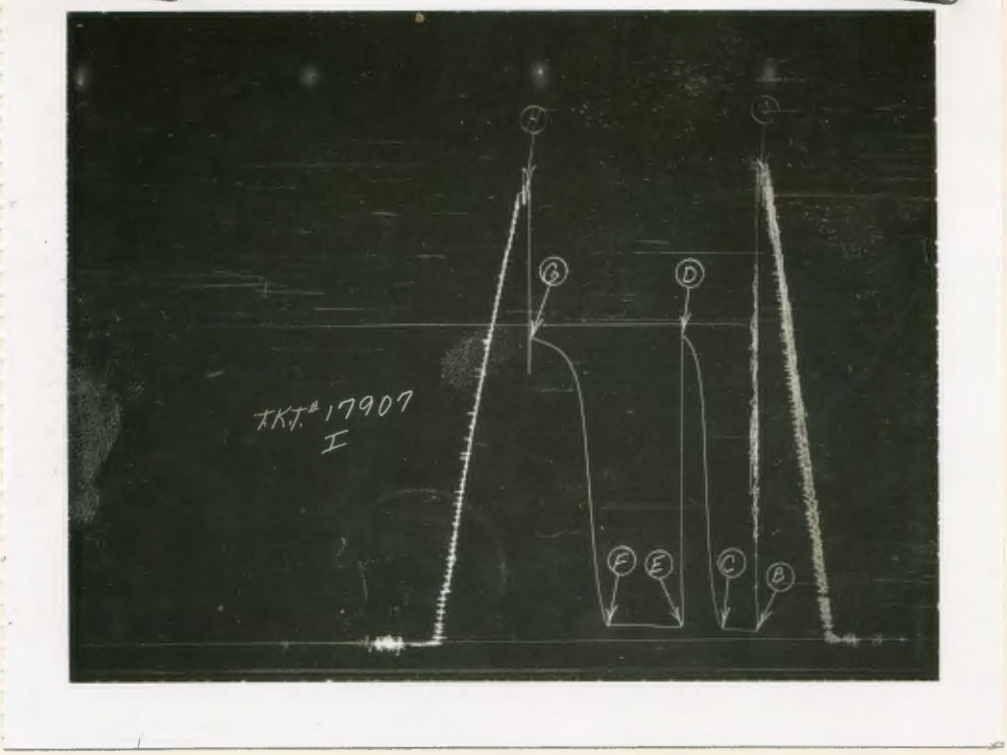
Type Circ. Sub Pin Safety Joint No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where?

Length Drill Pipe 3947 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1870 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I.D. Drill Collars in. Length D.S.T. Tool 39 ft.

Remarks Slid tool 8 feet to bottom



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2560	2559	PSI
(B)	First Initial Flow Pressure	50	44	PSI
(C)	First Final Flow Pressure	70	59	PSI
(D)	Initial Closed-in Pressure	1705	1705	PSI
(E)	Second Initial Flow Pressure	80	74	PSI
(F)	Second Final Flow Pressure	100	85	PSI
(G)	Final Closed-in Pressure	1705	1701	PSI
(H)	Final Hydrostatic Mud	2550	2540	PSI

WESTERN TESTING CO., INC.

Pressure Data

Date 8-23-73 Test Ticket No. 17907

Recorder No. 969 Capacity 4150 Location 4859 Ft.

Clock No. 8476 Elevation 1157 Kelly Bushings Well Temperature 132 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2559 P.S.I.	Open Tool	10:45 A.M	
B First Initial Flow Pressure	44 P.S.I.	First Flow Pressure	30 Mins.	29 Mins.
C First Final Flow Pressure	59 P.S.I.	Initial Closed-in Pressure	30 Mins.	10 Mins.
D Initial Closed-in Pressure	1705 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	74 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	85 P.S.I.			
G Final Closed-in Pressure	1701 P.S.I.			
H Final Hydrostatic Mud	2540 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 5 Inc. of 5 mins. and a final inc. of 4 Min.

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

Second Flow Pressure
Breakdown: 11 Inc. of 5 mins. and a final inc. of 4 Min.

Final Shut-In
Breakdown: 20 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	44	0	59	0	74	0	85
P 2 5	45	3	114	5	71	3	169
P 3 10	47	6	225	10	69	6	284
P 4 15	51	9	469	15	71	9	504
P 5 20	53	12	922	20	75	12	770
P 6 25	57	15	1384	25	81	15	1096
P 7 29	59	18	1541	30	82	18	1312
P 8		21	1610	35	85	21	1421
P 9		24	1658	40	85	24	1495
P10		27	1684	45	85	27	1548
P11		30	1705	50	85	30	1579
P12				55	85	33	1604
P13				59	85	36	1623
P14						39	1640
P15						42	1652
P16						45	1661
P17						48	1671
P18						51	1679
P19						54	1687
P20						57	1696
						60	1701

NOMENCLATURE

b	=	Approximate Radius of Investigation	Feet
b^1	=	Approximate Radius of Investigation (Net Pay Zone h^1)	Feet
D.R.	=	Damage Ratio	——
El	=	Elevation	Feet
GD	=	B.T. Gauge Depth (From Surface Reference)	Feet
h	=	Interval Tested	Feet
h^1	=	Net Pay Thickness	Feet
K	=	Permeability	md
K^1	=	Permeability (From Net Pay Zone h^1)	md
m	=	Slope Extrapolated Pressure Plot (Psi^2/cycle Gas)	psi/cycle
OF^1	=	Maximum Indicated Flow Rate	MCF/D
OF^2	=	Minimum Indicated Flow Rate	MCF/D
OF^3	=	Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF^4	=	Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P^S	=	Extrapolated Static Pressure	Psig.
P^F	=	Final Flow Pressure	Psig.
$P^{\circ T}$	=	Potentiometric Surface (Fresh Water*)	Feet
Q	=	Average Adjusted Production Rate During Test	bbls/day
Q^1	=	Theoretical Production w/Damage Removed	bbls/day
Q^g	=	Measured Gas Production Rate	MCF/D
R	=	Corrected Recovery	bbls
r^w	=	Radius of Well Bore	Feet
t	=	Flow Time	Minutes
t°	=	Total Flow Time	Minutes
T	=	Temperature Rankine	°R
Z	=	Compressibility Factor	——
u	=	Viscosity Gas or Liquid	CP
Log	=	Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.