WESTERN TESTERS

Home Office: Wichita, Kansas 67201

P.O. Box 1599 (316) 262-5861

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

Elevation 1355 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 7875

Date 7/27/81 Sec. 8 Twp. 27S Range 1W County Sedgwick State Kansas

Test Approved by Allen S Munroe Western Representative Kenny Kirkendall

Formation Test No. 1 Interval Tested from 2809 ft. to 2845 ft. Total Depth 2845 ft.

Packer Depth 2809 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2804 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2815 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 2819 ft. Recorder Number 10979 Cap. 4100

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor DNB Drilling Rig #3 Drill Collar Length - I. D. - in.

Mud Type Chemical Viscosity N/A Weight Pipe Length - I. D. - in.

Weight N/A Water Loss N/A cc. Drill Pipe Length 2791 I. D. - in.

Chlorides N/A P.P.M. Test Tool Length 18 ft. Tool Size 5½ in.

Jars: Make No Serial Number - Anchor Length 36 ft. Size 5½ in.

Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Very weak died in 20 minutes. No blow final flow period. Flushed tool - good surge. No blow.

Recovered 30 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:20 A.M. ~~P.M.~~ Time Started Off Bottom 10:20 A.M. P.M. Maximum Temperature 108

Initial Hydrostatic Pressure			(A) 1316	P.S.I.		
Initial Flow Period	Minutes 30	(B) 29	P.S.I. to	(C) 29	P.S.I.	
Initial Closed In Period	Minutes 30	(D) 987	P.S.I.			
Final Flow Period	Minutes 30	(E) 32	P.S.I. to	(F) 32	P.S.I.	
Final Closed In Period	Minutes 27	(G) 960	P.S.I.			
Final Hydrostatic Pressure			(H) 1302	P.S.I.		

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WESTERN TESTING CO., INC.
Pressure Data

Date 7/27/81 Test Ticket No. 7875

Recorder No. 2605 Capacity 4150 Location 2815 Ft.

Clock No. - Elevation 1355 Kelly Bushing Well Temperature 108 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	1316 P.S.I.	Open Tool	8:20A M	
B	First Initial Flow Pressure	29 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	29 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	987 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	32 P.S.I.	Final Closed-in Pressure	30 Mins.	27 Mins.
F	Second Final Flow Pressure	32 P.S.I.			
G	Final Closed-in Pressure	960 P.S.I.			
H	Final Hydrostatic Mud	1302 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	29
P 2	5	29
P 3	10	29
P 4	15	29
P 5	20	29
P 6	25	29
P 7	30	29
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.

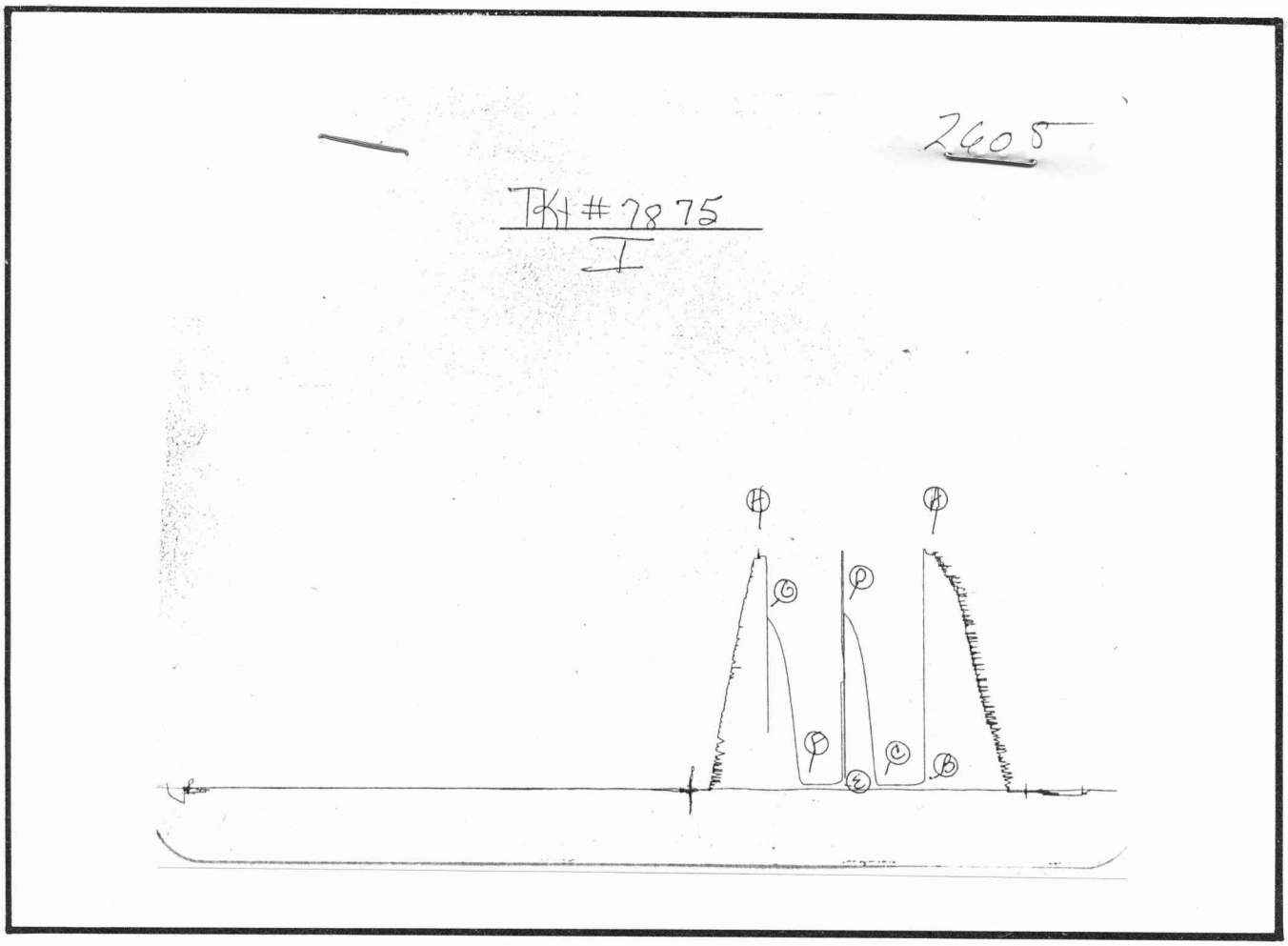
Point	Minutes	Press.
	0	29
	3	29
	6	29
	9	195
	12	447
	15	639
	18	757
	21	842
	24	898
	27	947
	30	987

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

Point	Minutes	Press.
	0	32
	5	32
	10	32
	15	32
	20	32
	25	32
	30	32

Final Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Minutes	Press.
	0	32
	3	95
	6	290
	9	485
	12	653
	15	761
	18	839
	21	890
	24	931
	27	960



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1306	1316	PSI
(B)	First Initial Flow Pressure	21	29	PSI
(C)	First Final Flow Pressure	21	29	PSI
(D)	Initial Closed-in Pressure	975	987	PSI
(E)	Second Initial Flow Pressure	31	32	PSI
(F)	Second Final Flow Pressure	31	32	PSI
(G)	Final Closed-in Pressure	954	960	PSI
(H)	Final Hydrostatic Mud	1306	1302	PSI

COMPANY J. A. Allison LEASE AND WELL NO. Armour #1 SEC. 8 TWP. 27S RGE. 1W TEST NO. 1 DATE 7/27/81

Home Office: Wichita, Kansas 67201

P.O. Box 1599 (316) 262-5861

Company J. A. Allison Lease & Well No. ~~Pearson #2~~ Armour #1

Elevation 1347 Ground Level Formation Mississippi Effective Pay - Ft. Ticket No. 7832

Date 7/29/81 Sec. 5 Twp. 27S Range 1W County Sedgwick State Kansas

Test Approved by A. S. Munn Western Representative Robert Davis

Formation Test No. 2 Interval Tested from 3416 ft. to 3433 ft. Total Depth 3433 ft.

Packer Depth 3416 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3412 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3421 ft. Recorder Number 2774 Cap. 4500

Bottom Recorder Depth (Outside) 3425 ft. Recorder Number 11018 Cap. 4425

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor D.N.B. Drilling Rig #3 Drill Collar Length - I. D. - in.

Mud Type premix Viscosity 44 Weight Pipe Length - I. D. - in.

Weight 9.1 Water Loss 10.5 cc. Drill Pipe Length 3422 I. D. - in.

Chlorides 2,000 P.P.M. Test Tool Length 20 ft. Tool Size 5½ in.

Jars: Make None Serial Number - Anchor Length 17 ft. Size 5½ in.

Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH

Blow: Weak to fair; two inches on initial flow period. Fair two inches on final flow period.

Recovered 248 ft. of gas in pipe

Recovered 58 ft. of gas and oil cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

READ OUTSIDE CHART

Time Set Packer(s) 8:30 A.M. P.M. Time Started Off Bottom 11:30 A.M. ~~P.M.~~ Maximum Temperature 117°

Initial Hydrostatic Pressure		(A) 1659 P.S.I.		
Initial Flow Period	Minutes 35	(B) 73 * P.S.I.	to (C) 73 *	P.S.I.
Initial Closed In Period	Minutes 42	(D) 1009 P.S.I.		
Final Flow Period	Minutes 60	(E) 58 * P.S.I.	to (F) 58 *	P.S.I.
Final Closed In Period	Minutes 45	(G) 876 P.S.I.		
Final Hydrostatic Pressure		(H) 1659 P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 7/29/81 Test Ticket No. 7832

Recorder No. 11018 Capacity 4425 Location 3425 F

Clock No. - Elevation 1347 Ground Level Well Temperature 117 °

Point		Pressure	
A	Initial Hydrostatic Mud	1659	P.S.I.
B	First Initial Flow Pressure	73 *	P.S.I.
C	First Final Flow Pressure	73 *	P.S.I.
D	Initial Closed-in Pressure	1009	P.S.I.
E	Second Initial Flow Pressure	58 *	P.S.I.
F	Second Final Flow Pressure	58 *	P.S.I.
G	Final Closed-in Pressure	876	P.S.I.
H	Final Hydrostatic Mud	1659	P.S.I.

	Time Given	Time Computed
Open Tool	8:30A M	
First Flow Pressure	30 Mins.	30 Mins
Initial Closed-in Pressure	45 Mins.	42 Mins
Second Flow Pressure	60 Mins.	60 Mins
Final Closed-in Pressure	34 Mins.	45 Mins

* PRESSURES QUESTIONABLE DUE TO PLUGGING ACTION.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	73 *
P 2 5	73 *
P 3 10	73 *
P 4 15	73 *
P 5 20	73 *
P 6 25	73 *
P 7 30	73 *
P 8 35	73 *
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 14 Inc. of 3 mins. and a final inc. of 0 Min.

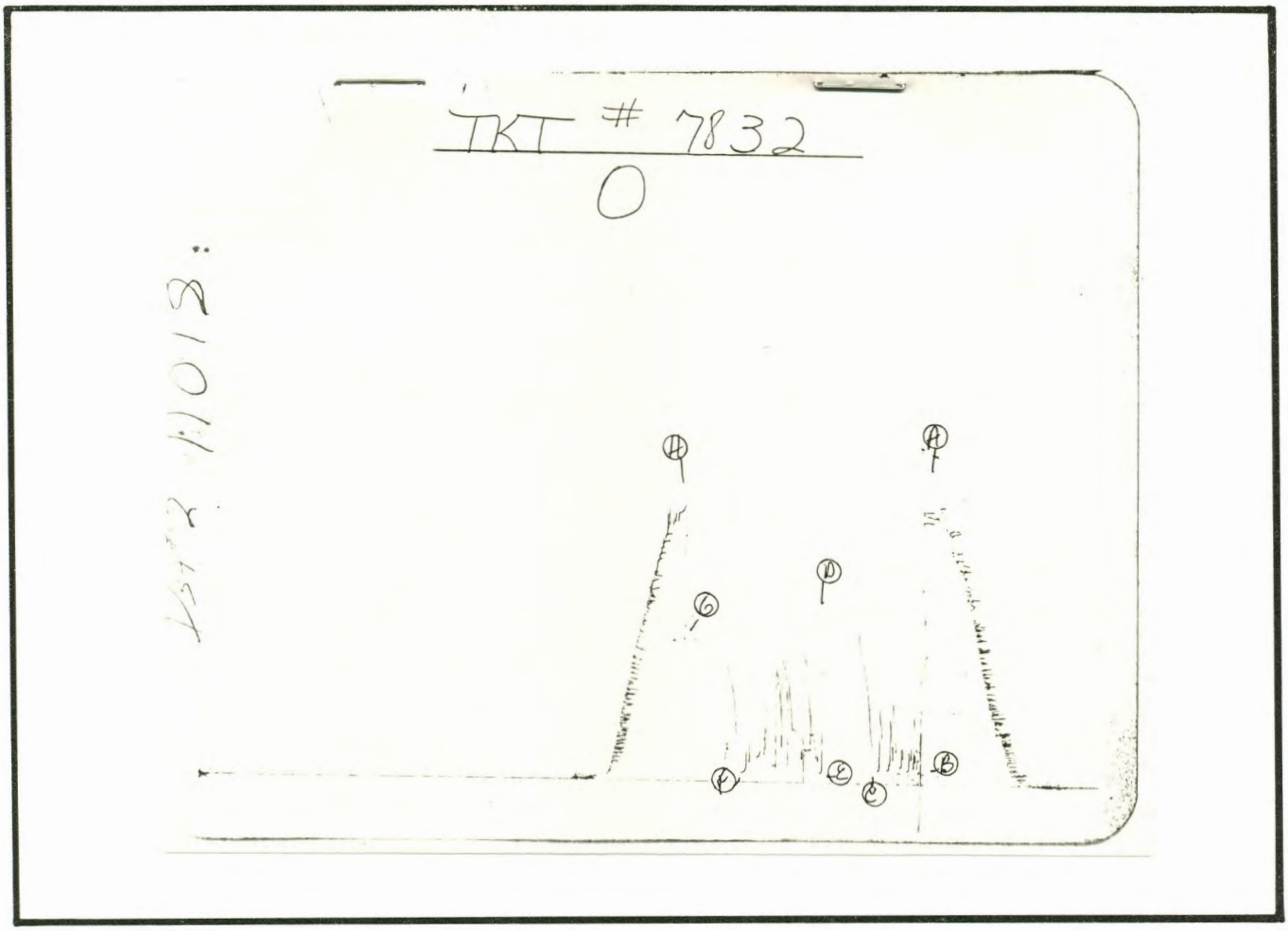
Point Minutes	Press.
0	73 *
3	178
6	458
9	644
12	757
15	907
18	931
21	942
24	958
27	969
30	978
33	987
36	996
39	1004
42	1009

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

Point Minutes	Press.
0	58 *
5	58 *
10	58 *
15	58 *
20	58 *
25	58 *
30	58 *
35	58 *
40	58 *
45	58 *
50	58 *
55	58 *
60	58 *

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

Point Minutes	Press.
0	58 *
3	182
6	500
9	628
12	699
15	743
18	770
21	790
24	803
27	819
30	830
33	841
36	852
39	861
42	869
45	876



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1647	1659	PSI
(B)	First Initial Flow Pressure	66	73 *	PSI
(C)	First Final Flow Pressure	66	73 *	PSI
(D)	Initial Closed-in Pressure	997	1009	PSI
(E)	Second Initial Flow Pressure	66	58 *	PSI
(F)	Second Final Flow Pressure	66	58 *	PSI
(G)	Final Closed-in Pressure	865	876	PSI
(H)	Final Hydrostatic Mud	1647	1659	PSI

COMPANY LEASE AND WELL NO.

Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company J. A. Allison Lease & Well No. ~~Pearson #2~~ Armour #1

Elevation 1347 Ground Level Formation Mississippi Effective Pay - Ft. Ticket No. 7833

Date 7/29/81 Sec. 5 Twp. 27S Range 1W County Sedgwick State Kansas

Test Approved by A. M----- Western Representative Robert Davis

Formation Test No. 3 Interval Tested from 3433 ft. to 3442 ft. Total Depth 3442 ft.

Packer Depth 3433 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3428 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3434 ft. Recorder Number 2774 Cap. 4500

Bottom Recorder Depth (Outside) 3438 ft. Recorder Number 11018 Cap. 4425

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor D.N.B. Drilling Rig#3 Drill Collar Length - I. D. - in.

Mud Type premix Viscosity 43 Weight Pipe Length - I. D. - in.

Weight 9.1 Water Loss 10.8 cc. Drill Pipe Length 3423 I. D. - in.

Chlorides 1,700 P.P.M. Test Tool Length 20 ft. Tool Size - in.

Jars: Make None Serial Number - Anchor Length 9 ft. Size - in.

Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½ in.

Blow: Weak blow one and one half inch on initial flow period. Good blow on final flow period

Recovered 3 ft. of free oil

Recovered 62 ft. of gas and oil cut mud

Recovered 248 ft. of gas in pipe

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:00 ~~A.M.~~ P.M. Time Started Off Bottom 12:00 A.M. ~~P.M.~~ Maximum Temperature 117°

Initial Hydrostatic Pressure			(A) 1621	P.S.I.		
Initial Flow Period	Minutes 30	(B) 20	P.S.I. to	(C) 25	P.S.I.	
Initial Closed In Period	Minutes 45	(D) 1156	P.S.I.			
Final Flow Period	Minutes 60	(E) 42	P.S.I. to	(F) 51	P.S.I.	
Final Closed In Period	Minutes 48	(G) 1136	P.S.I.			
Final Hydrostatic Pressure			(H) 1621	P.S.I.		

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WESTERN TESTING CO., INC.
Pressure Data

Date 7/29/81 Test Ticket No. 7833

Recorder No. 2774 Capacity 4500 Location 3434 Ft.

Clock No. -- Elevation 1347 Ground Level Well Temperature 117 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1621 P.S.I.	Open Tool		9:00P M	
B	First Initial Flow Pressure	20 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	25 P.S.I.	Initial Closed-in Pressure		45 Mins.	45 Mins.
D	Initial Closed-in Pressure	1156 P.S.I.	Second Flow Pressure		60 Mins.	60 Mins.
E	Second Initial Flow Pressure	42 P.S.I.	Final Closed-in Pressure		45 Mins.	48 Mins.
F	Second Final Flow Pressure	51 P.S.I.				
G	Final Closed-in Pressure	1136 P.S.I.				
H	Final Hydrostatic Mud	1621 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	20
P 2 5	21
P 3 10	22
P 4 15	24
P 5 20	24
P 6 25	25
P 7 30	25
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	25
3	145
6	346
9	774
12	980
15	1047
18	1084
21	1102
24	1118
27	1129
30	1136
33	1142
36	1149
39	1151
42	1155
45	1156

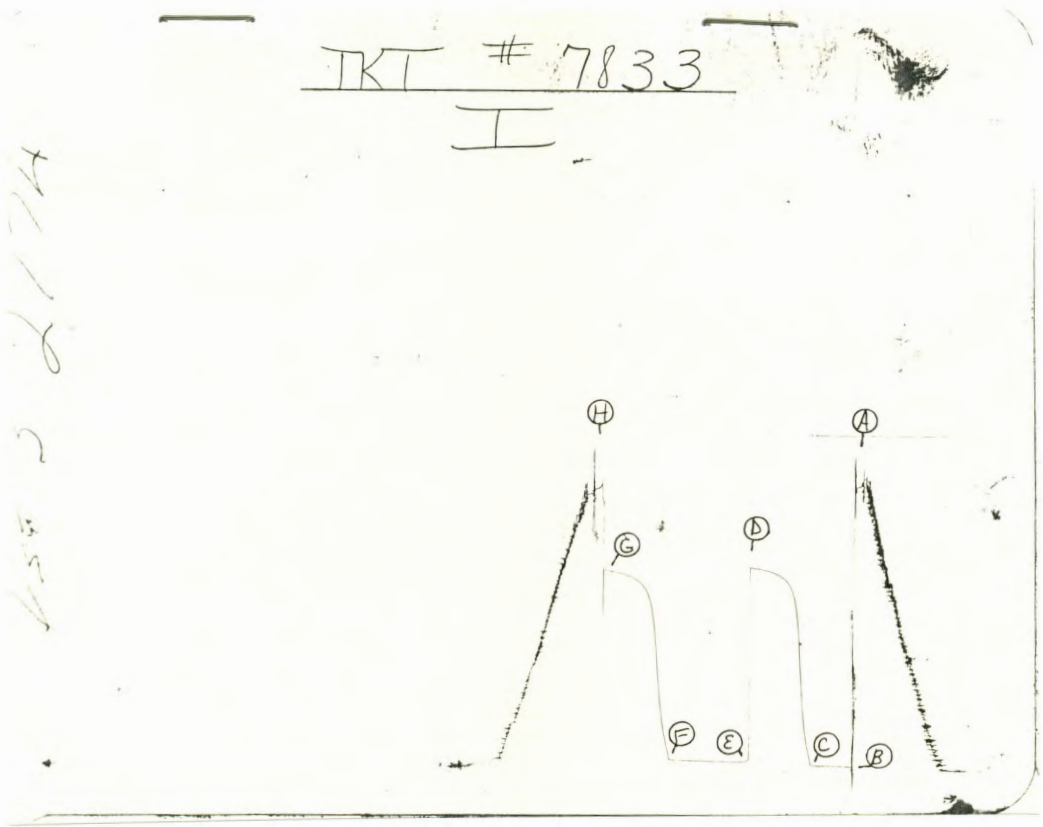
Second Flow Pressure
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	42
5	42
10	42
15	42
20	45
25	45
30	45
35	46
40	47
45	48
50	49
55	50
60	51

Final Shut-In
Breakdown: 16 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	51
3	150
6	301
9	586
12	853
15	974
18	1029
21	1058
24	1078
27	1093
30	1102
33	1111
36	1118
39	1124
42	1129
45	1133
48	1136

COMPANY J. A. ALLISON LEASE AND WELL NO. PEARSON #2 SEC. 5 TWP. 27S RGE. 1W TEST NO. 3 DATE 7



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1654	1621	PSI
(B)	First Initial Flow Pressure	22	20	PSI
(C)	First Final Flow Pressure	22	25	PSI
(D)	Initial Closed-in Pressure	1168	1156	PSI
(E)	Second Initial Flow Pressure	34	42	PSI
(F)	Second Final Flow Pressure	34	51	PSI
(G)	Final Closed-in Pressure	1146	1136	PSI
(H)	Final Hydrostatic Mud	1654	1621	PSI

Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company J. A. Allison | Lease & Well No. Armour #1

Elevation 1355 Kelly Bushing | Formation Simpson | Effective Pay - Ft. | Ticket No. 10405

Date 7/31/81 | Sec. 8 | Twp. 27S | Range 1W | County Sedgwick | State Kansas

Test Approved by J. A. Allison | Western Representative Kenny Kirkendall

Formation Test No. 4 | Interval Tested from 3887 ft. to 3901 ft. | Total Depth 3901 ft.

Packer Depth 3887 ft. | Size 6 3/4 in. | Packer Depth - ft. | Size - in.

Packer Depth 3883 ft. | Size 6 3/4 in. | Packer Depth - ft. | Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3892 ft. | Recorder Number 2605 | Cap. 4150

Bottom Recorder Depth (Outside) 3896 ft. | Recorder Number 10979 | Cap. 4100

Below Straddle Recorder Depth - ft. | Recorder Number - | Cap. -

Drilling Contractor DNB Rig #3 | Drill Collar Length - | I. D. - in.

Mud Type Chemical | Viscosity 54 | Weight Pipe Length - | I. D. - in.

Weight 9.4 | Water Loss 10.8 cc. | Drill Pipe Length - | I. D. - in.

Chlorides 1600 P.P.M. | Test Tool Length 18 ft. | Tool Size 5½ in.

Jars: Make No | Serial Number - | Anchor Length 14 ft. | Size 5½ in.

Did Well Flow? - | Reversed Out - | Surface Choke Size 3/4 in. | Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. | Tool Joint Size 4½XH in.

Blow: Good blow throughout initial flow period.

Recovered 1340 ft. of muddy salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:26 A.M. P.M. | Time Started Off Bottom - A.M. P.M. | Maximum Temperature 127

Initial Hydrostatic Pressure			(A)	1843	P.S.I.	
Initial Flow Period	Minutes 25		(B)	205	P.S.I. to (C)	1367 P.S.I.
Initial Closed In Period	Minutes 30		(D)	1518	P.S.I.	
Final Flow Period	Minutes 30		(E)	1411	P.S.I. to (F)	1463 P.S.I.
Final Closed In Period	Minutes 33		(G)	1520	P.S.I.	
Final Hydrostatic Pressure			(H)	1843	P.S.I.	

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WESTERN TESTING CO., INC.
Pressure Data

Date 7/31/81 Test Ticket No. 10405

Recorder No. 2605 Capacity 4150 Location 3892 Ft.

Clock No. - Elevation 1355 Kelly Bushing Well Temperature 127 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1843 P.S.I.	Open Tool		12:26A M	
B	First Initial Flow Pressure	205 P.S.I.	First Flow Pressure		30 Mins.	25 Mins.
C	First Final Flow Pressure	1367 P.S.I.	Initial Closed-in Pressure		30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1518 P.S.I.	Second Flow Pressure		30 Mins.	30 Mins.
E	Second Initial Flow Pressure	1411 P.S.I.	Final Closed-in Pressure		30 Mins.	33 Mins.
F	Second Final Flow Pressure	1463 P.S.I.				
G	Final Closed-in Pressure	1520 P.S.I.				
H	Final Hydrostatic Mud	1843 P.S.I.				

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	205
P 2 5	Plugged
P 3 10	1365
P 4 15	1354
P 5 20	1367
P 6 25	1367
P 7	
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.

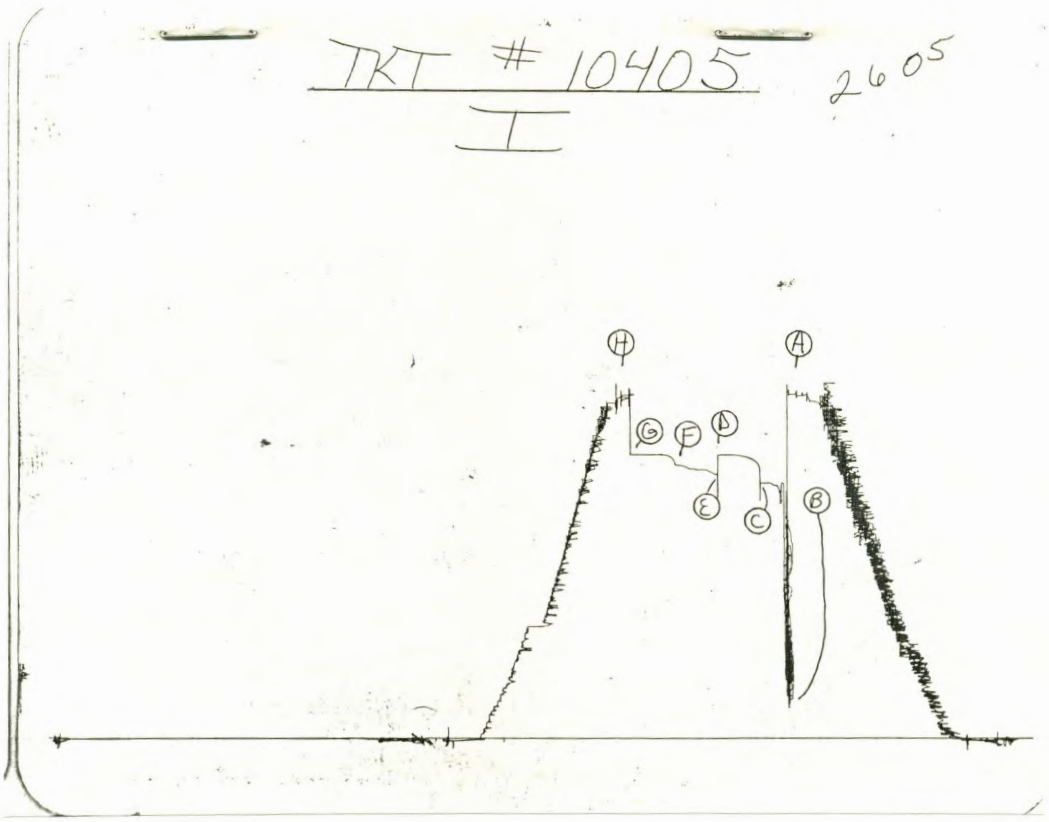
Point Minutes	Press.
0	1367
3	1481
6	1496
9	1504
12	1510
15	1515
18	1516
21	1517
24	1517
27	1518
30	1518

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

Point Minutes	Press.
0	1411
5	1423
10	1436
15	1438
20	1442
25	1456
30	1463

Final Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	1463
3	1500
6	1513
9	1519
12	1520
15	1520
18	1520
21	1520
24	1520
27	1520
30	1520
33	1520



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1828	1843	PSI
(B)	First Initial Flow Pressure	-	205	PSI
(C)	First Final Flow Pressure	-	1367	PSI
(D)	Initial Closed-in Pressure	1514	1518	PSI
(E)	Second Initial Flow Pressure	-	1411	PSI
(F)	Second Final Flow Pressure	-	1463	PSI
(G)	Final Closed-in Pressure	1504	1520	PSI
(H)	Final Hydrostatic Mud	1828	1843	PSI