WESTERN TESTERS

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company J. A. Allison — Lease & Well No. Downs #1

Elevation -- — Formation -- — Effective Pay -- Ft. — Ticket No. 1322

Date 4/15/79 — Sec. 34 — Twp. 20S — Range 35W — County Wichita — State Kansas

Test Approved by Bob Gill — Western Representative Jim Wo ndra

Formation Test No. 1 — Interval Tested from 4253 ft. to 4280 ft. — Total Depth 4280' ft.

Packer Depth 4247 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4253 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4270 ft. — Recorder Number 2607 — Cap. 4150

Bottom Recorder Depth (Outside) 4273 ft. — Recorder Number 3351 — Cap. 4000

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

Drilling Contractor Rains & Williamson Rig #2 — Drill Collar Length 509 — I. D. 2¼ in.

Mud Type salt mud & starch — Viscosity 37 — Weight Pipe Length - — I. D. - in.

Weight 9.3 — Water Loss 40.6 cc. — Drill Pipe Length 3723 — I. D. 3.8 in.

Chlorides 29,000 P.P.M. — Test Tool Length 21' — Tool Size 5½OD in.

Jars: Make -- — Serial Number -- — Anchor Length 27' ft. — Size 5½OD 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 4½FH in.

Blow: Weak;increased to strong blow on first flow period. Strong decreased to weak blow on second flow period.

Recovered 120 ft. of muddy water

Recovered 2280 ft. of salt water (35,000 ppm)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:00 ~~A.M.~~ P.M. — Time Started Off Bottom 11:45 ~~A.M.~~ P.M. — Maximum Temperature 111

Initial Hydrostatic Pressure			(A)	2204	P.S.I.	
Initial Flow Period	Minutes 35	(B)	106	P.S.I. to (C)	612	P.S.I.
Initial Closed In Period	Minutes 30	(D)	1153	P.S.I.		
Final Flow Period	Minutes 60	(E)	658	P.S.I. to (F)	1056	P.S.I.
Final Closed In Period	Minutes 45	(G)	1159	P.S.I.		
Final Hydrostatic Pressure			(H)	2146	P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 4/15/79 Test Ticket No. 1322

Recorder No. 2607 Capacity 4150 Location 4270 Ft.

Clock No. -- Elevation -- Well Temperature 111 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2204 P.S.I.	Open Tool		9:00P M	
B	First Initial Flow Pressure	106 P.S.I.	First Flow Pressure		30 Mins.	35 Mins.
C	First Final Flow Pressure	612 P.S.I.	Initial Closed-in Pressure		30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1153 P.S.I.	Second Flow Pressure		60 Mins.	60 Mins.
E	Second Initial Flow Pressure	658 P.S.I.	Final Closed-in Pressure		45 Mins.	45 Mins.
F	Second Final Flow Pressure	1056 P.S.I.				
G	Final Closed-in Pressure	1159 P.S.I.				
H	Final Hydrostatic Mud	2146 P.S.I.				

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	106
P 2 5	233
P 3 10	307
P 4 15	374
P 5 20	441
P 6 25	498
P 7 30	556
P 8 35	612
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.

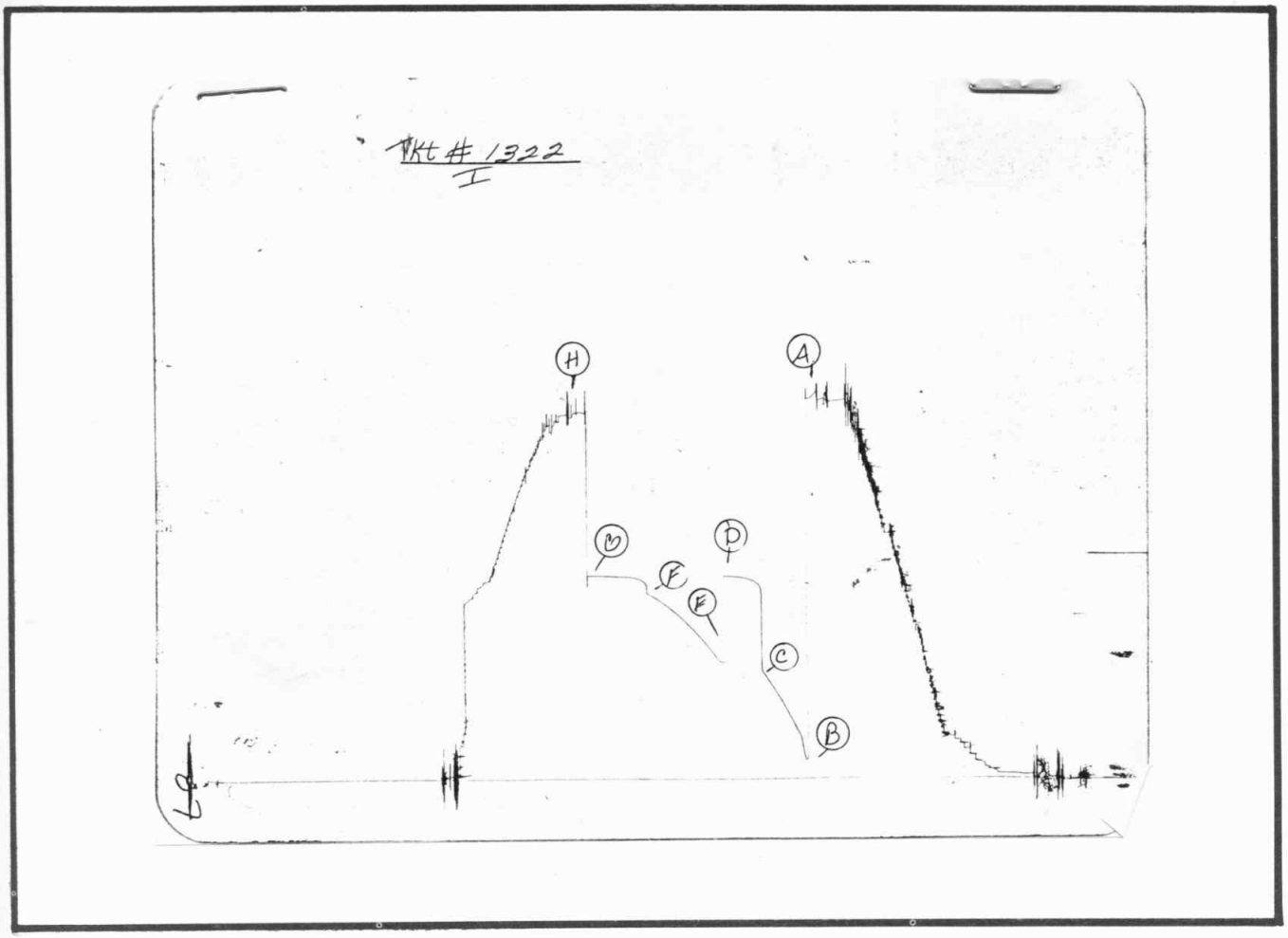
Point Minutes	Press.
0	612
3	1105
6	1121
9	1132
12	1140
15	1144
18	1146
21	1148
24	1150
27	1152
30	1153

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

Point Minutes	Press.
0	658
5	673
10	718
15	762
20	806
25	847
30	883
35	917
40	940
45	983
50	1010
55	1034
60	1056

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

Point Minutes	Press.
0	1056
3	1127
6	1138
9	1146
12	1148
15	1149
18	1151
21	1153
24	1155
27	1156
30	1157
33	1157
36	1158
39	1158
42	1159
45	1159



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2151	2204	PSI
(B)	First Initial Flow Pressure	105	106	PSI
(C)	First Final Flow Pressure	612	612	PSI
(D)	Initial Closed-in Pressure	1154	1153	PSI
(E)	Second Initial Flow Pressure	664	658	PSI
(F)	Second Final Flow Pressure	1050	1056	PSI
(G)	Final Closed-in Pressure	1154	1159	PSI
(H)	Final Hydrostatic Mud	2130	2146	PSI

COMPANY J. A. ALLSION LEASE AND WELL NO. DOWNS #1 SEC. 34 TWP. 20S RGE. 35W TEST NO. 1 DATE 4/15/79

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company J. A. Allison — Lease & Well No. Downs #1

Elevation -- — Formation Marmaton — Effective Pay -- Ft. — Ticket No. 1324

Date 4/17/79 — Sec. 34 — Twp. 20S — Range 35W — County Wichita — State Kansas

Test Approved by R. J. Gill — Western Representative Jim Wondra

Formation Test No. 2 — Interval Tested from 4460' ft. to 4540' ft. — Total Depth 4540' ft.

Packer Depth 4455' ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4460' ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4467 ft. — Recorder Number 2607 — Cap. 4150

Bottom Recorder Depth (Outside) 4470 ft. — Recorder Number 3351 — Cap. 4000

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

Drilling Contractor Rains & Williamson Rig #2 — Drill Collar Length 450 — I. D. 2¼ in.

Mud Type salt mud starch — Viscosity 58 — Weight Pipe Length -- — I. D. -- in.

Weight 9.5 — Water Loss 19.4 cc. — Drill Pipe Length 3999 — I. D. 3.8 in.

Chlorides 39,000 P.P.M. — Test Tool Length 21' in. — Tool Size 5½OD in.

Jars: Make -- — Serial Number -- — Anchor Length 80' ft. — Size 5½OD in.

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

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

Blow: Fair, Increased to strong blow on first flow period. Strong blow throughout second flow p

Recovered 30 ft. of oily mud

Recovered 120 ft. of muddy oil

Recovered 652 ft. of free oil (34 gravity)

Recovered 668 ft. of muddy oil

Recovered 5 ft. of filtrate on bottom

Remarks:

Time Set Packer(s) 11:30 ~~A.M.~~ P.M. — Time Started Off Bottom 2:15 ~~A.M.~~ P.M. — Maximum Temperature 112

Initial Hydrostatic Pressure			(A)	2302	P.S.I.	
Initial Flow Period	Minutes 30		(B)	205	P.S.I. to (C)	305 P.S.I.
Initial Closed In Period	Minutes 30		(D)	1217	P.S.I.	
Final Flow Period	Minutes 60		(E)	360	P.S.I. to (F)	556 P.S.I.
Final Closed In Period	Minutes 54		(G)	1203	P.S.I.	
Final Hydrostatic Pressure			(H)	2255	P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 4/17/79 Test Ticket No. 1324

Recorder No. 2607 Capacity 4150 Location 4467 Ft.

Clock No. -- Elevation -- Well Temperature 112 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2302 P.S.I.	Open Tool		11:30 A M	
B	First Initial Flow Pressure	205 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	305 P.S.I.	Initial Closed-in Pressure		30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1217 P.S.I.	Second Flow Pressure		60 Mins.	60 Mins.
E	Second Initial Flow Pressure	360 P.S.I.	Final Closed-in Pressure		45 Mins.	54 Mins.
F	Second Final Flow Pressure	556 P.S.I.				
G	Final Closed-in Pressure	1203 P.S.I.				
H	Final Hydrostatic Mud	2255 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	205
P 2 5	203
P 3 10	267
P 4 15	273
P 5 20	275
P 6 25	286
P 7 30	305
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.

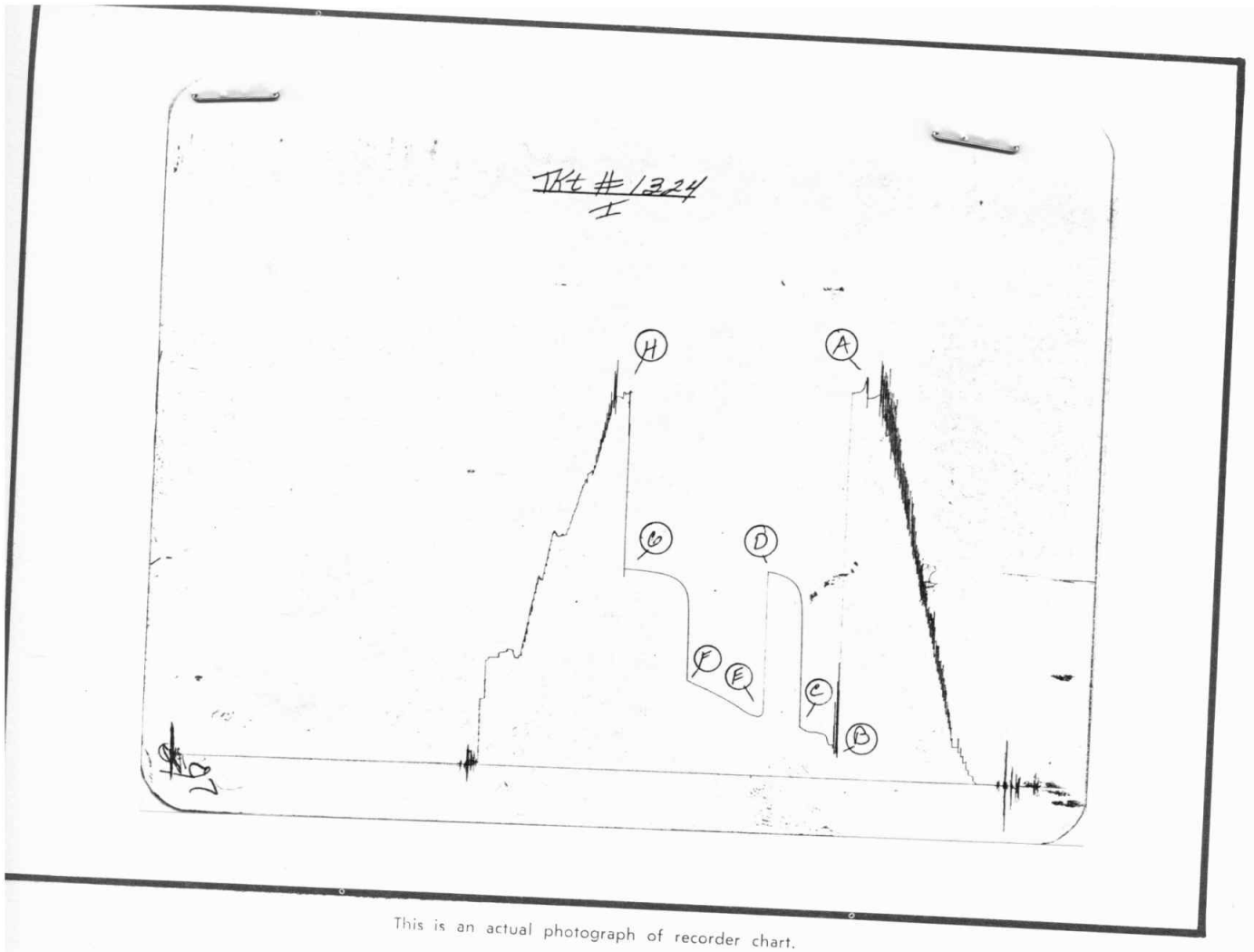
Point Minutes	Press.
0	305
3	1025
6	1117
9	1150
12	1171
15	1182
18	1194
21	1203
24	1209
27	1213
30	1217

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

Point Minutes	Press.
0	360
5	356
10	369
15	386
20	411
25	432
30	451
35	468
40	487
45	504
50	521
55	539
60	556

Final Shut-In
Breakdown: 18 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	556
3	1054
6	1107
9	1134
12	1148
15	1161
18	1173
21	1178
24	1182
27	1186
30	1188
33	1192
36	1194
39	1196
42	1197
45	1198
48	1200
51	1202
54	1203



This is an actual photograph of recorder chart.

POINT	PRESSURE Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2267	2302	PSI
(B) First Initial Flow Pressure	201	205	PSI
(C) First Final Flow Pressure	307	305	PSI
(D) Initial Closed-in Pressure	1206	1217	PSI
(E) Second Initial Flow Pressure	338	360	PSI
(F) Second Final Flow Pressure	549	556	PSI
(G) Final Closed-in Pressure	1206	1203	PSI
(H) Final Hydrostatic Mud	2246	2255	PSI

COMPANY J. A. ALLISON LEASE AND WELL NO. DOWNS #1 SEC. 34 TWP. 20S RGE. 35W TEST NO. 2 DATE 4/17/79

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

mpany J. A. Allison Lease & Well No. Downs #1

evation -- Formation -- Effective Pay -- Ft. Ticket No. 1325

te 4/18/79 Sec. 34 Twp. 20S Range 35W County Wichita State Kansas

st Approved by Bob Gill Western Representative Jim Wondra

rmation Test No. 3 Interval Tested from 4574 ft. to 4610 ft. Total Depth 4610 ft.

cker Depth 4569 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

cker Depth 4574 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

pth of Selective Zone Set --

p Recorder Depth (Inside) 4600 ft. Recorder Number 2607 Cap. 4150

ttom Recorder Depth (Outside) 4603 ft. Recorder Number 3351 Cap. 4000

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

illing Contractor Rains & Williamson Rig #2 Drill Collar Length 509 I. D. 2¼ in.

ud Type salt mud & starch Viscosity 43 Weight Pipe Length - I. D. - in.

eight 9.5 Water Loss 13.8 cc. Drill Pipe Length 4044 I. D. 3.8 in.

lorides 41,000 P.P.M. Test Tool Length 21' Tool Size 5½OD in.

rs: Make -- Serial Number -- Anchor Length 36' Size 5½OD in.

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

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

low: Weak, increased to fair blow on first flow period. Fair blow throughout second flow period.

ecovered 60 ft. of heavy oil cut mud

ecovered 60 ft. of oil cut mud

ecovered 120 ft. of slightly oil cut mud

ecovered 120 ft. of salt water

ecovered ft. of

emarks:

ime Set Packer(s) 12:10 ~~A.M.~~ P.M. Time Started Off Bottom 2:55 ~~A.M.~~ P.M. Maximum Temperature 112

nitial Hydrostatic Pressure		(A) 2402 P.S.I.		
nitial Flow Period	Minutes 30	(B) 80 P.S.I.	to (C) 93 P.S.I.	
nitial Closed In Period	Minutes 33	(D) 1094 P.S.I.		
inal Flow Period	Minutes 60	(E) 152 P.S.I.	to (F) 186 P.S.I.	
inal Closed In Period	Minutes 48	(G) 1079 P.S.I.		
inal Hydrostatic Pressure		(H) 2310 P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 4/18/79 Test Ticket No. 1325

Recorder No. 2607 Capacity 4150 Location 4600 Ft.

Clock No. -- Elevation -- Well Temperature 112 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2402 P.S.I.	Open Tool		12:10P M	
B	First Initial Flow Pressure	80 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	93 P.S.I.	Initial Closed-in Pressure		30 Mins.	33 Mins.
D	Initial Closed-in Pressure	1094 P.S.I.	Second Flow Pressure		60 Mins.	60 Mins.
E	Second Initial Flow Pressure	152 P.S.I.	Final Closed-in Pressure		45 Mins.	48 Mins.
F	Second Final Flow Pressure	186 P.S.I.				
G	Final Closed-in Pressure	1079 P.S.I.				
H	Final Hydrostatic Mud	2310 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	80
P 2	5	70
P 3	10	70
P 4	15	74
P 5	20	82
P 6	25	87
P 7	30	93
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point	Minutes	Press.
	0	93
	3	190
	6	481
	9	691
	12	822
	15	908
	18	960
	21	996
	24	1025
	27	1052
	30	1073
	33	1094

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

Point	Minutes	Press.
	0	152
	5	144
	10	144
	15	144
	20	150
	25	157
	30	161
	35	161
	40	161
	45	161
	50	169
	55	176
	60	186

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

Point	Minutes	Press.
	0	186
	3	316
	6	506
	9	658
	12	760
	15	837
	18	881
	21	921
	24	948
	27	975
	30	998
	33	1012
	36	1026
	39	1040
	42	1055
	45	1069
	48	1079

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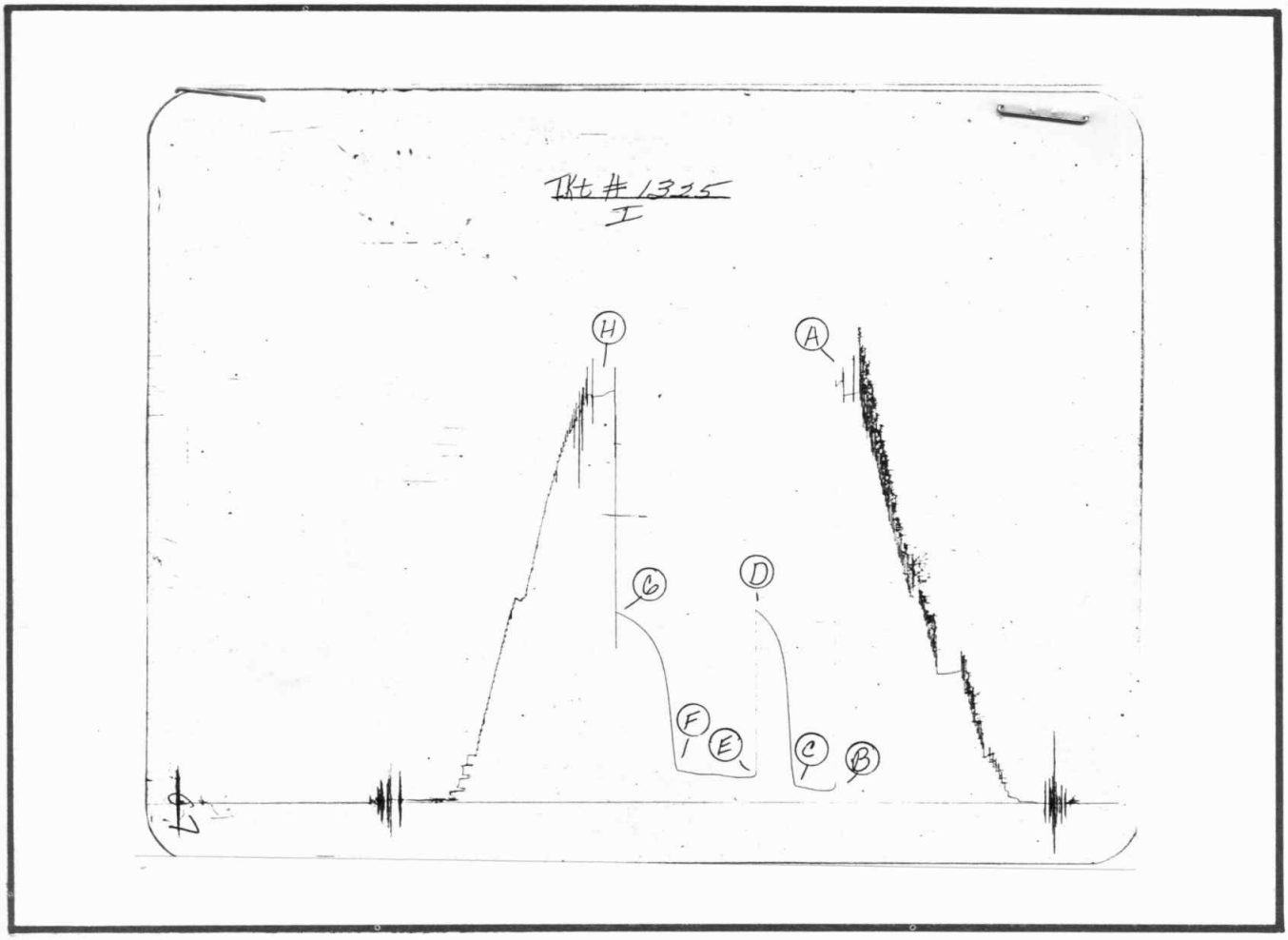
COMPANY J. A. ALLISON LEASE AND WELL NO. DOWNS #1 SEC. 34 TWP. 20S RGE. 35W TEST NO. 3 DATE 4/18/79



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2329	2402	PSI
(B)	First Initial Flow Pressure	84	80	PSI
(C)	First Final Flow Pressure	95	93	PSI
(D)	Initial Closed-in Pressure	1102	1094	PSI
(E)	Second Initial Flow Pressure	137	152	PSI
(F)	Second Final Flow Pressure	169	186	PSI
(G)	Final Closed-in Pressure	1081	1079	PSI
(H)	Final Hydrostatic Mud	2299	2310	PSI