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

Company Rains & Williamson Oil Co., Inc. Lease & Well No. #1 "A" Holland

Elevation ---- Formation Lansing Effective Pay -- Ft. Ticket No. 17289

Date 10/ 20 /82 Sec. 6 Twp. 13S Range 13W County Russell State Kansas

Test Approved by Charles I. Slagle Western Representative Dan Delaney

Formation Test No. 1 Interval Tested from 2894 ft. to 2955 ft. Total Depth 2955 ft.

Packer Depth 2894 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 2889 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2897 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 2901 ft. Recorder Number 6077 Cap. 4700

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

Drilling Contractor Rains & Williamson Drlg. Rig #9 Drill Collar Length 360 I. D. 2.2 in.

Mud Type premix-starch Viscosity 45 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 10.8 cc. Drill Pipe Length 2513 I. D. 3.8 in.

Chlorides 48.000 P.P.M. Test Tool Length 21 ft. Tool Size 4-1/2 in.

Jars: Make - Serial Number - Anchor Length 61 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: Initial flow period weak blow slowly increasing throughout-three fourth to two and one half inches. No blow on final flow period.

Recovered 180 ft. of mud Chlorides 38,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 6:50 A.M. ~~P.M.~~ Time Started Off Bottom 10:20 A.M. ~~P.M.~~ Maximum Temperature 100°

Initial Hydrostatic Pressure			(A)	1462	P.S.I.	
Initial Flow Period	Minutes 30	(B)	111	P.S.I. to (C)	119	P.S.I.
Initial Closed In Period	Minutes 60	(D)	412	P.S.I.		
Final Flow Period	Minutes 30	(E)	132	P.S.I. to (F)	141	P.S.I.
Final Closed In Period	Minutes 90	(G)	412	P.S.I.		
Final Hydrostatic Pressure		(H)	1450	P.S.I.		

WTC-

WESTERN TESTING CO., INC.

Pressure Data

Date 10/20/82 Test Ticket No. 17289

Recorder No. 6234 Capacity 4500 Location 2897 Ft.

Clock No. --- Elevation --- Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1462 P.S.I.	Open Tool	6:50A M	
B First Initial Flow Pressure	111 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	119 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	412 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	132 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	141 P.S.I.			
G Final Closed-in Pressure	412 P.S.I.			
H Final Hydrostatic Mud	1450 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	111
P 2 5	112
P 3 10	114
P 4 15	116
P 5 20	117
P 6 25	118
P 7 30	119
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	119
3	346
6	372
9	382
12	390
15	394
18	397
21	400
24	401
27	402
30	403
33	404
36	405
39	406
42	408
45	410
48	412
51	412
54	412
57	412
60	412

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

Point Minutes	Press.
0	132
5	134
10	135
15	138
20	139
25	140
30	141

Final Shut-In
Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	141
3	349
6	373
9	383
12	390
15	395
18	397
21	398
24	399
27	400
30	401
33	402
36	403
39	404
42	405
45	405
48	406
51	406
54	407
57	407
60	408

CONTINUED NEXT PAGE

WESTERN TESTING CO., INC.

Pressure Data

Date 10/20/82 Test Ticket No. 17289

Recorder No. 6234 Capacity 4500 Location 2897 Ft.

Clock No. --- Elevation --- Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1462 P.S.I.	Open Tool	6:50A M	
B First Initial Flow Pressure	111 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	119 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	412 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	132 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	141 P.S.I.			
G Final Closed-in Pressure	412 P.S.I.			
H Final Hydrostatic Mud	1450 P.S.I.			

PRESSURE BREAKDOWN

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

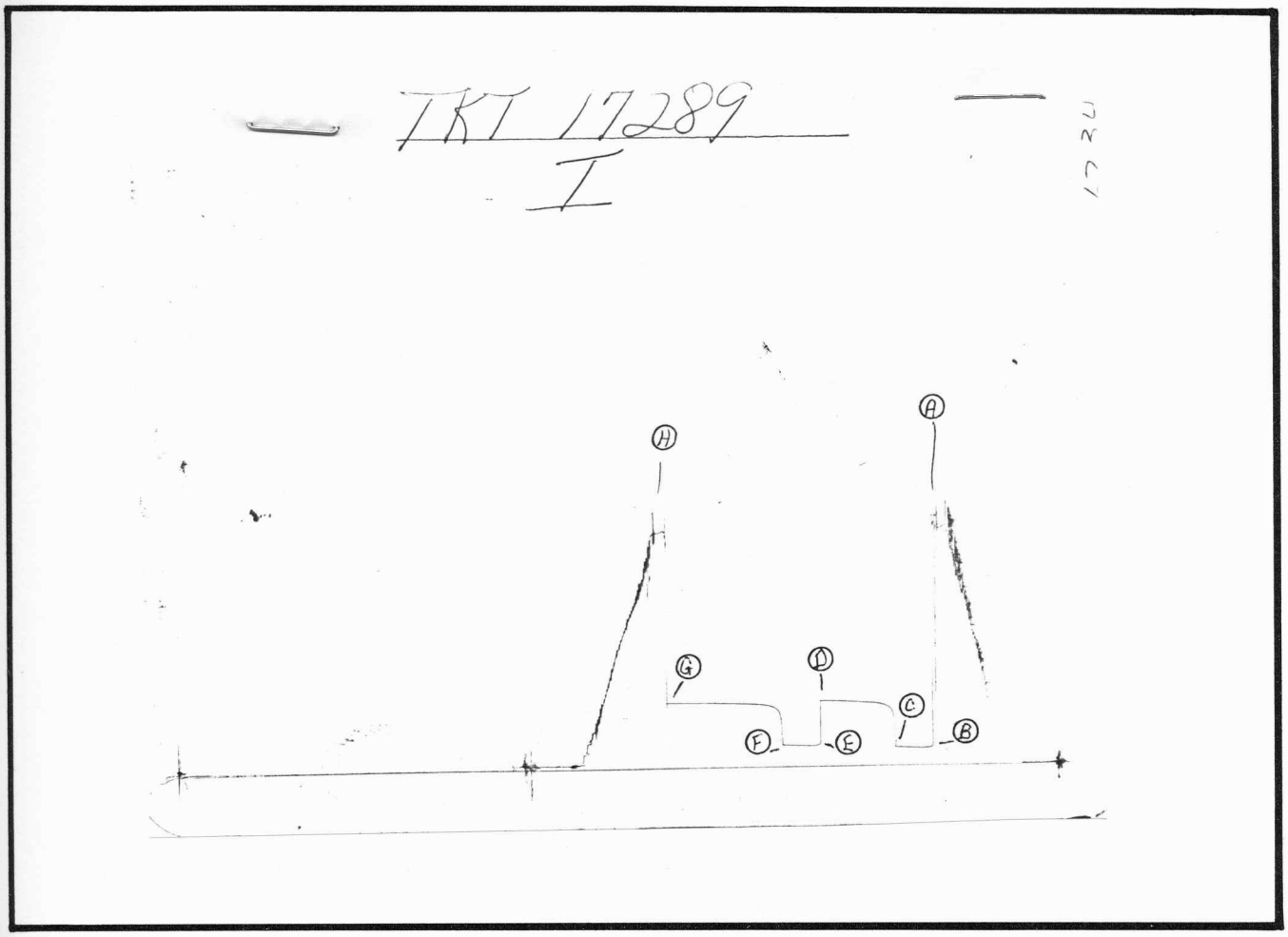
Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

Final Shut-In
Breakdown: 30 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						63	408
P 2						66	409
P 3						69	409
P 4						72	410
P 5						75	410
P 6						78	411
P 7						81	411
P 8						84	412
P 9						87	412
P10						90	412
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WTC - 4



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1475	1462	PSI
(B)	First Initial Flow Pressure	103	111	PSI
(C)	First Final Flow Pressure	114	119	PSI
(D)	Initial Closed-in Pressure	412	412	PSI
(E)	Second Initial Flow Pressure	126	132	PSI
(F)	Second Final Flow Pressure	137	141	PSI
(G)	Final Closed-in Pressure	412	412	PSI
(H)	Final Hydrostatic Mud	1463	1450	PSI

COMPANY RAINS & WILLIAMSON OIL CO., INC. LEASE AND WELL NO. #1 "A" HOLLAND SEC. 6 TWP. 13S RGE. 13W TEST NO. 1 DATE 10/ 20 /82

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

Company Rains & Williamson Oil Co., Inc. Lease & Well No. #1 "A" Holland

Elevation ---- Formation Lansing Effective Pay -- Ft. Ticket No. 17290

Date 10/ 20 /82 Sec. 6 Twp. 13S Range 13W County Russell State Kansas

Test Approved by Charles I. Slagle Western Representative Dan Delaney

Formation Test No. 2 Interval Tested from 2955 ft. to 2975 ft. Total Depth 2975 ft.

Packer Depth 2955 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 2950 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2962 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 2966 ft. Recorder Number 6077 Cap. 4700

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

Drilling Contractor Rains & Williamson Drlg. Rig #9 Drill Collar Length 360 I. D. 2.2 in.

Mud Type premix-starch Viscosity 46 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 10.8 cc. Drill Pipe Length 2574 I. D. 3.8 in.

Chlorides 48,000 P.P.M. Test Tool Length 21 ft. Tool Size 4-1/2in.

Jars: Make - Serial Number - Anchor Length 20 ft. Size 5½in.

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: Initial flow period weak blow increasing in first thirteen minutes to one and one half inches then slowly decreasing for final seventeen minutes of initial flow period. No blow on final flow period.

Recovered ft. of

Recovered 25 ft. of slightly oil specked mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Read bottom chart.

Time Set Packer(s) 8:45 ~~A.M.~~ P.M. Time Started Off Bottom 12:15 A.M. ~~P.M.~~ Maximum Temperature 100°

Initial Hydrostatic Pressure			(A) 1580	P.S.I.		
Initial Flow Period	Minutes 30	(B) 71	P.S.I. to	(C) 71	P.S.I.	
Initial Closed In Period	Minutes 54	(D) 179	P.S.I.			
Final Flow Period	Minutes 30	(E) 71	P.S.I. to	(F) 71	P.S.I.	
Final Closed In Period	Minutes 84	(G) 172	P.S.I.			
Final Hydrostatic Pressure			(H) 1509	P.S.I.		

WTC

Pressure Data

Date 10/20/82 Test Ticket No. 17290

Recorder No. 6077 Capacity 4700 Location 2966 Ft.

Clock No. --- Elevation --- Well Temperature 100 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1580 P.S.I.		Open Tool	8:45P M	
B	First Initial Flow Pressure	71 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	71 P.S.I.		Initial Closed-in Pressure	60 Mins.	54 Mins.
D	Initial Closed-in Pressure	179 P.S.I.		Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	71 P.S.I.		Final Closed-in Pressure	90 Mins.	84 Mins.
F	Second Final Flow Pressure	71 P.S.I.				
G	Final Closed-in Pressure	172 P.S.I.				
H	Final Hydrostatic Mud	1509 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	71
P 2 5	71
P 3 10	71
P 4 15	71
P 5 20	71
P 6 25	71
P 7 30	71
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	71
3	78
6	80
9	82
12	83
15	86
18	90
21	96
24	100
27	105
30	110
33	118
36	127
39	139
42	146
45	157
48	166
51	175
54	179

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

Point Minutes	Press.
0	71
5	71
10	71
15	71
20	71
25	71
30	71

Final Shut-In
Breakdown: 28 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	71
3	72
6	73
9	74
12	75
15	76
18	78
21	81
24	85
27	87
30	91
33	95
36	98
39	100
42	105
45	109
48	113
51	118
54	123
57	127
60	131

WTC - 4

CONTINUED NEXT PAGE

Pressure Data

Date 10/20/82 Test Ticket No. 17290

Recorder No. 6077 Capacity 4700 Location 2966 Ft.

Clock No. --- Elevation --- Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1580 P.S.I.	Open Tool	8:45P M	
B First Initial Flow Pressure	71 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	71 P.S.I.	Initial Closed-in Pressure	60 Mins.	54 Mins.
D Initial Closed-in Pressure	179 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	71 P.S.I.	Final Closed-in Pressure	90 Mins.	84 Mins.
F Second Final Flow Pressure	71 P.S.I.			
G Final Closed-in Pressure	172 P.S.I.			
H Final Hydrostatic Mud	1509 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	
P 2	
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.

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

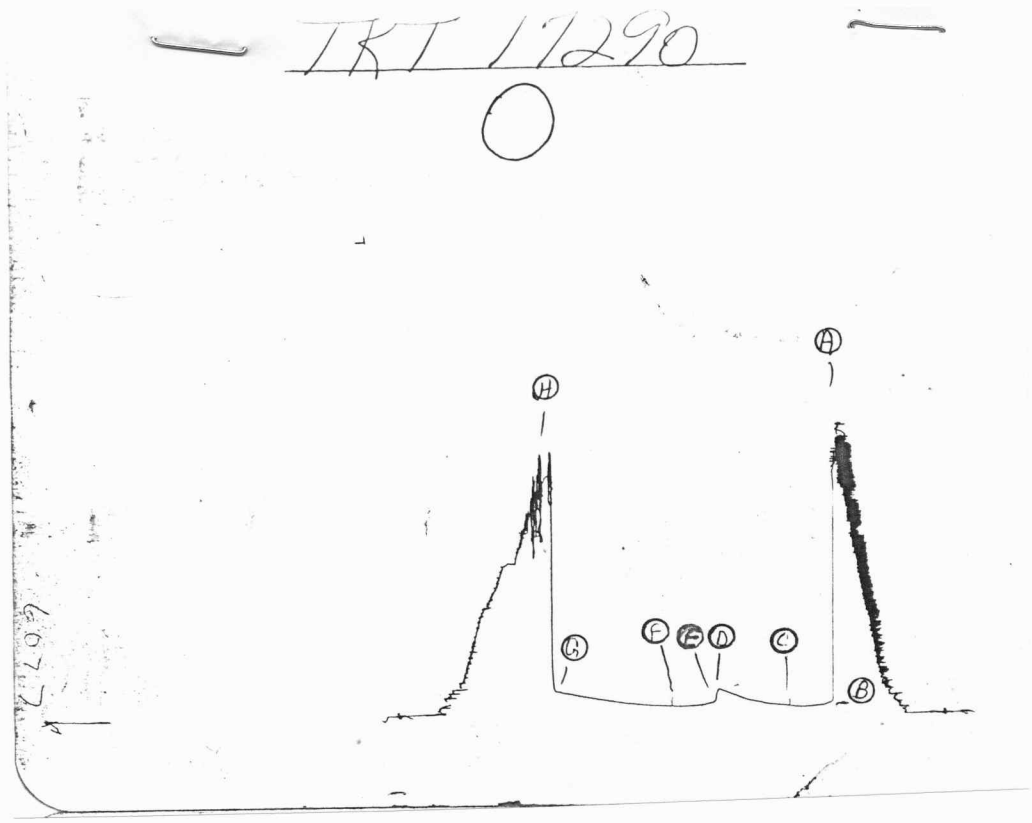
Point Minutes	Press.

Final Shut-In
Breakdown: 28 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
63	137
66	142
69	147
72	152
75	157
78	163
81	169
84	172

WTC - 4

COMPANY RAINS & WILLIAMSON OIL CO., INC. LEASE AND WELL NO. #1 "A" HOLLAND SEC. 6 TWP. 13S RGE. 13W TEST NO. 2 DATE 10/ 20/82



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1574	1580	PSI
(B)	First Initial Flow Pressure	75	71	PSI
(C)	First Final Flow Pressure	75	71	PSI
(D)	Initial Closed-in Pressure	175	179	PSI
(E)	Second Initial Flow Pressure	75	71	PSI
(F)	Second Final Flow Pressure	75	71	PSI
(G)	Final Closed-in Pressure	162	172	PSI
(H)	Final Hydrostatic Mud	1562	1509	PSI

Home Office: Wichita, Kansas 67201

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

Company Rains & Williamson Oil Co.,Inc. Lease & Well No. #1 "A" Holland

Elevation ---- Formation Lansing Effective Pay -- Ft. Ticket No. 17291

Date 10/ 21 /82 Sec. 6 Twp. 13S Range 13W County Russell State Kansas

Test Approved by Charles I. Slagle Western Representative Dan Delaney

Formation Test No. 3 Interval Tested from 2980 ft. to 3010 ft. Total Depth 3010 ft.

Packer Depth 2980 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 2975 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2994 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 2998 ft. Recorder Number 6077 Cap. 4700

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

Drilling Contractor Rains & Williamson Drlg. Rig #9 Drill Collar Length 360 I. D. 2.2 in.

Mud Type starch Viscosity 46 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 10.6 cc. Drill Pipe Length 2599 I. D. 3.8 in.

Chlorides 49,000 P.P.M. Test Tool Length 21 ft. Tool Size 4-1/2 in.

Jars: Make - Serial Number - Anchor Length 30 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: Initial flow period weak blow (one inch) slowly decreasing throughout. No blow on final flow period.

Recovered 20 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:50 ~~P.M.~~ A.M. Time Started Off Bottom 3:20 ~~A.M.~~ P.M. Maximum Temperature 101°

Initial Hydrostatic Pressure			(A) 1547	P.S.I.		
Initial Flow Period	Minutes 35	(B) 64	P.S.I. to	(C) 67	P.S.I.	
Initial Closed In Period	Minutes 54	(D) 227	P.S.I.			
Final Flow Period	Minutes 30	(E) 71	P.S.I. to	(F) 71	P.S.I.	
Final Closed In Period	Minutes 87	(G) 170	P.S.I.			
Final Hydrostatic Pressure			(H) 1518	P.S.I.		

WTC

WESTERN TESTING CO., INC.

Pressure Data

Date 10/21/82 Test Ticket No. 17291

Recorder No. 6234 Capacity 4500 Location 2994 Ft.

Clock No. ---- Elevation --- Well Temperature 101 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1547 P.S.I.	Open Tool		11:50A M	
B	First Initial Flow Pressure	64 P.S.I.	First Flow Pressure		30 Mins.	35 Mins.
C	First Final Flow Pressure	67 P.S.I.	Initial Closed-in Pressure		60 Mins.	54 Mins.
D	Initial Closed-in Pressure	227 P.S.I.	Second Flow Pressure		30 Mins.	30 Mins.
E	Second Initial Flow Pressure	71 P.S.I.	Final Closed-in Pressure		90 Mins.	87 Mins.
F	Second Final Flow Pressure	71 P.S.I.				
G	Final Closed-in Pressure	170 P.S.I.				
H	Final Hydrostatic Mud	1518 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	64
P 2 5	67
P 3 10	67
P 4 15	67
P 5 20	67
P 6 25	67
P 7 30	67
P 8 35	67
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	67
3	84
6	95
9	101
12	110
15	115
18	124
21	131
24	139
27	145
30	155
33	164
36	173
39	183
42	192
45	204
48	212
51	224
54	227

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

Point Minutes	Press.
0	71
5	71
10	71
15	71
20	71
25	71
30	71

Final Shut-In
Breakdown: 29 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	71
3	72
6	80
9	85
12	89
15	93
18	96
21	99
24	102
27	103
30	106
33	108
36	111
39	115
42	117
45	119
48	122
51	125
54	128
57	130
60	135

WTC - 4

CONTINUED NEXT PAGE

WESTERN TESTING CO., INC.

Pressure Data

Date 10/21/82 Test Ticket No. 17291

Recorder No. 6234 Capacity 4500 Location 2994 Ft.

Clock No. ---- Elevation --- Well Temperature 101 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1547 P.S.I.	Open Tool		11:50A M	
B	First Initial Flow Pressure	64 P.S.I.	First Flow Pressure		30 Mins.	35 Mins.
C	First Final Flow Pressure	67 P.S.I.	Initial Closed-in Pressure		60 Mins.	54 Mins.
D	Initial Closed-in Pressure	227 P.S.I.	Second Flow Pressure		30 Mins.	30 Mins.
E	Second Initial Flow Pressure	71 P.S.I.	Final Closed-in Pressure		90 Mins.	87 Mins.
F	Second Final Flow Pressure	71 P.S.I.				
G	Final Closed-in Pressure	170 P.S.I.				
H	Final Hydrostatic Mud	1518 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	
P 2	
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.

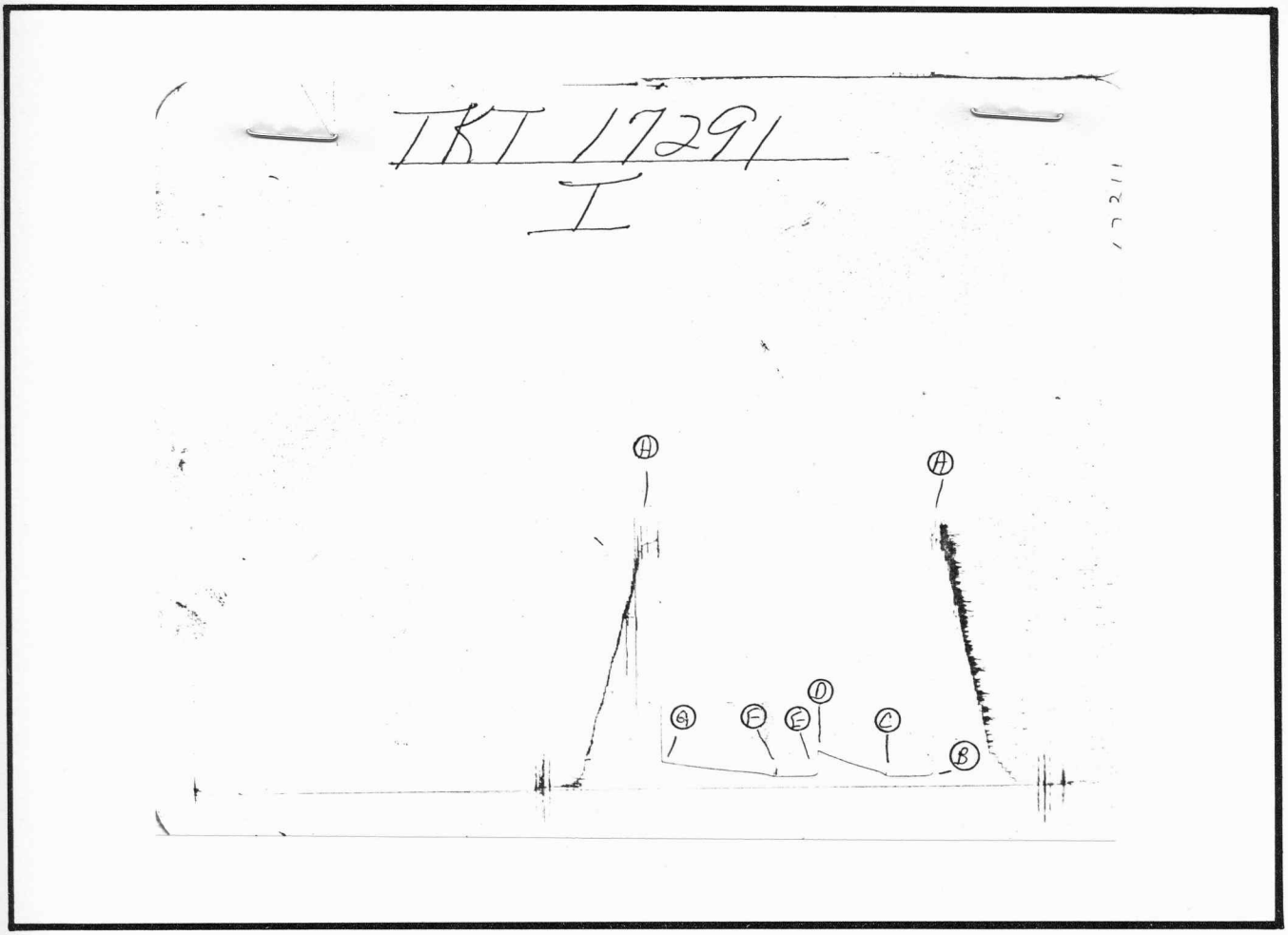
Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.

Final Shut-In
Breakdown: 29 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
63	139
66	142
69	145
72	149
75	155
78	157
81	162
84	166
87	170

WTC - 4



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1531	1547	PSI
(B)	First Initial Flow Pressure	57	64	PSI
(C)	First Final Flow Pressure	57	67	PSI
(D)	Initial Closed-in Pressure	229	227	PSI
(E)	Second Initial Flow Pressure	68	71	PSI
(F)	Second Final Flow Pressure	68	71	PSI
(G)	Final Closed-in Pressure	172	170	PSI
(H)	Final Hydrostatic Mud	1520	1518	PSI

COMPANY RAINS & WILLIAMSON OIL CO., INC. LEASE AND WELL NO. #1 "A" HOLLAND SEC. 6 TWP. 13S RGE. 13W TEST NO. 3 DATE 10/ 21 /82