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

Company Mull Drilling Company, Inc. Lease & Well No. Fitzgerald #1

Elevation 3312 Ground Level Formation Lansing "D" Effective Pay - Ft. Ticket No. 9806

Date 12/10/81 Sec. 33 Twp. 11S Range 26W County Logan State Kansas

Test Approved by Dallas Donner Western Representative Roger Lisenby

Formation Test No. 1 Interval Tested from 4184 ft. to 4226 ft. Total Depth 4226 ft.

Packer Depth 4179 ft. Size 6 5/8in. Packer Depth = ft. Size = in.

Packer Depth 4184 ft. Size 6 5/8in. Packer Depth = ft. Size = in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4217 ft. Recorder Number 13266 Cap. 4000

Bottom Recorder Depth (Outside) 4220 ft. Recorder Number 13265 Cap. 3975

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

Drilling Contractor Blue Goose Drlg. Rig #2 Drill Collar Length 243 I. D. 2¼ in.

Mud Type starch Viscosity 40 Weight Pipe Length - I. D. - in.

Weight 9.6 Water Loss 12.8 cc. Drill Pipe Length 3920 I. D. 3.8 in.

Chlorides 36,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make - Serial Number - Anchor Length 42 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 increasing blow to one inch in bucket. Final flow period no blow; flushed tool; weak decreasing blow died in 35 minutes.

Recovered 90 ft. of mud 10% water

Recovered ft. of Chlorides 41,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Slid tool four feet to bottom

Time Set Packer(s) 2:14 A.M. P.M. Time Started Off Bottom 5:29 A.M. P.M. Maximum Temperature 124°

Initial Hydrostatic Pressure			(A)	2155	P.S.I.	
Initial Flow Period	Minutes	30	(B)	85	P.S.I. to (C)	85 P.S.I.
Initial Closed In Period	Minutes	45	(D)	1113	P.S.I.	
Final Flow Period	Minutes	60	(E)	100	P.S.I. to (F)	100 P.S.I.
Final Closed In Period	Minutes	60	(G)	1016	P.S.I.	
Final Hydrostatic Pressure			(H)	2143	P.S.I.	

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WESTERN TESTING CO., INC.
Pressure Data

Date 12/10/81 Test Ticket No. 9806

Recorder No. 13266 Capacity 4000 Location 4217 Ft.

Clock No. - Elevation 3312 Ground Level Well Temperature 124 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2155 P.S.I.	Open Tool		2:14A M	
B	First Initial Flow Pressure	85 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	85 P.S.I.	Initial Closed-in Pressure		45 Mins.	45 Mins.
D	Initial Closed-in Pressure	1113 P.S.I.	Second Flow Pressure		60 Mins.	60 Mins.
E	Second Initial Flow Pressure	134 P.S.I.	Final Closed-in Pressure		60 Mins.	60 Mins.
F	Second Final Flow Pressure	100 P.S.I.				
G	Final Closed-in Pressure	1016 P.S.I.				
H	Final Hydrostatic Mud	2143 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	85
P 2 5	85
P 3 10	85
P 4 15	85
P 5 20	85
P 6 25	85
P 7 30	85
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.

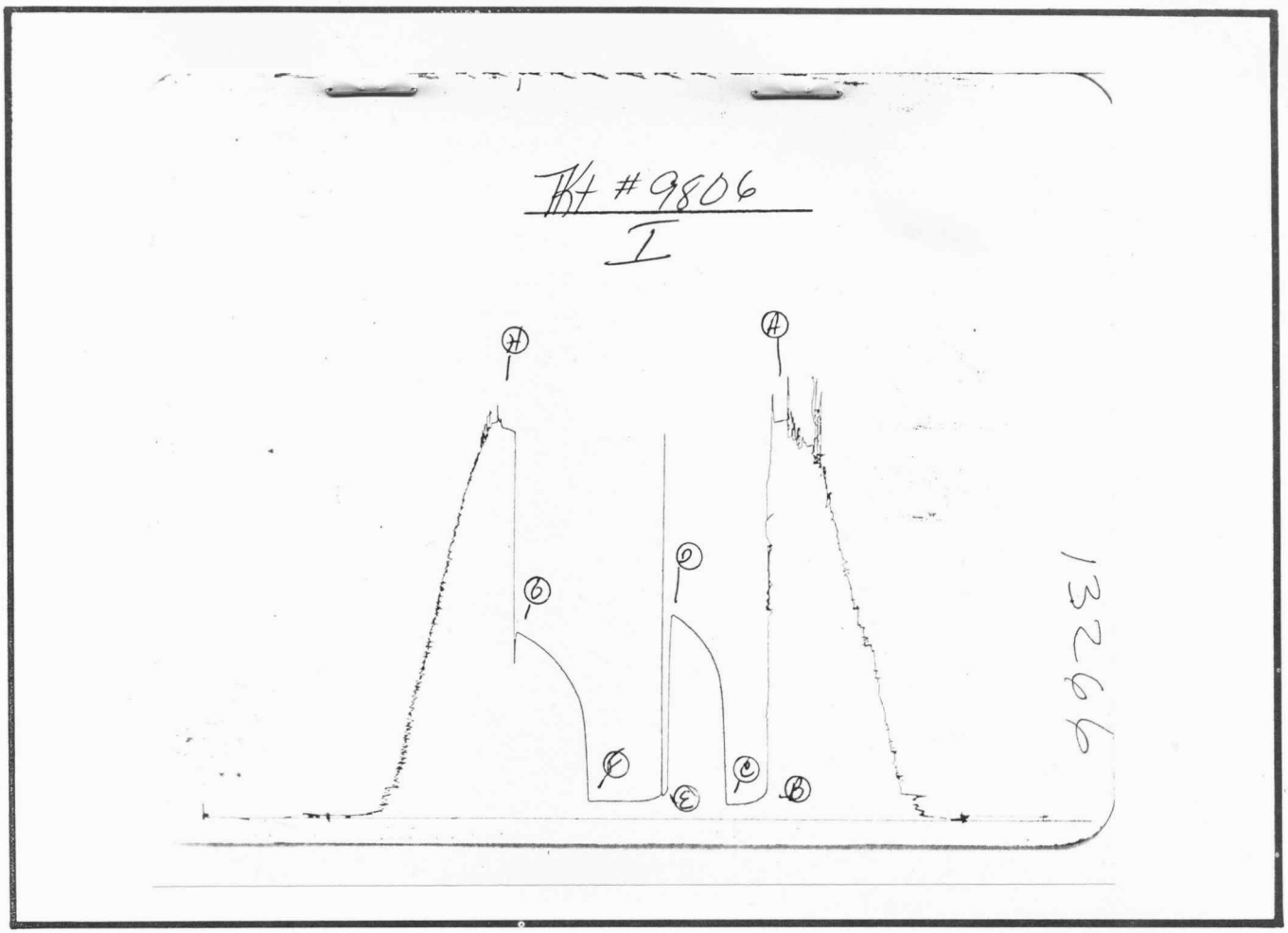
Point Minutes	Press.
0	85
3	305
6	614
9	770
12	840
15	891
18	931
21	960
24	986
27	1012
30	1034
33	1052
36	1070
39	1089
42	1102
45	1113

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

Point Minutes	Press.
0	134
5	FLUSHED TOOL
10	119
15	108
20	103
25	101
30	100
35	100
40	100
45	100
50	100
55	100
60	100

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

Point Minutes	Press.
0	100
3	447
6	596
9	668
12	711
15	746
18	780
21	810
24	839
27	862
30	885
33	905
36	925
39	941
42	958
45	972
48	984
51	997
54	1008
57	1016
60	1016



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2139	2155	PSI
(B)	First Initial Flow Pressure	81	85	PSI
(C)	First Final Flow Pressure	81	85	PSI
(D)	Initial Closed-in Pressure	1097	1113	PSI
(E)	Second Initial Flow Pressure	91	134	PSI
(F)	Second Final Flow Pressure	91	100	PSI
(G)	Final Closed-in Pressure	998	1016	PSI
(H)	Final Hydrostatic Mud	2129	2134	PSI

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

Company Mull Drilling Company, Inc. Lease & Well No. Fitzgerald #1

Elevation 3312 Ground Level Formation Lansing Effective Pay - Ft. Ticket No. 9807

Date 12/11/81 Sec. 33 Twp. 11S Range 36W County Logan State Kansas

Test Approved by Dallas Donner Western Representative Joady Hurtt-Roger Lisenby

Formation Test No. 2 Interval Tested from 4280 ft. to 4320 ft. Total Depth 4320 ft.

Packer Depth 4275 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4280 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4313 ft. Recorder Number 13266 Cap. 4000

Bottom Recorder Depth (Outside) 4316 ft. Recorder Number 13265 Cap. 3975

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

Drilling Contractor Blue Goose Drlg. Rig #2 Drill Collar Length 304 I. D. 2¼ in.

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

Weight 9.4 Water Loss 6.4 cc. Drill Pipe Length 3955 I. D. 3.8 in.

Chlorides 35,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make - Serial Number - Anchor Length 40 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: Weak blow; one inch in bucket on initial flow period. Weak blow; died in sixteen minutes; flushed tool - no blow on final flow period.

Recovered 20 ft. of mud with oil spots

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:23 A.M. P.M. Time Started Off Bottom 9:08 A.M. P.M. Maximum Temperature 125°

Initial Hydrostatic Pressure			(A)	2209	P.S.I.	
Initial Flow Period	Minutes 30	(B)	77	P.S.I. to (C)	63	P.S.I.
Initial Closed In Period	Minutes 42	(D)	1175	P.S.I.		
Final Flow Period	Minutes 30	(E)	82	P.S.I. to (F)	69	P.S.I.
Final Closed In Period	Minutes 57	(G)	1130	P.S.I.		
Final Hydrostatic Pressure			(H)	2189	P.S.I.	

WTC.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/11/81 Test Ticket No. 9807

Recorder No. 13266 Capacity 4000 Location 4313 Ft.

Clock No. -- Elevation 3312 Ground Level Well Temperature 125 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	2209 P.S.I.	Open Tool		4:23A M	
B First Initial Flow Pressure	77 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C First Final Flow Pressure	63 P.S.I.	Initial Closed-in Pressure		45 Mins.	42 Mins.
D Initial Closed-in Pressure	1175 P.S.I.	Second Flow Pressure		30 Mins.	30 Mins.
E Second Initial Flow Pressure	82 P.S.I.	Final Closed-in Pressure		60 Mins.	57 Mins.
F Second Final Flow Pressure	69 P.S.I.				
G Final Closed-in Pressure	1130 P.S.I.				
H Final Hydrostatic Mud	2189 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	77
P 2	5	77
P 3	10	77
P 4	15	70
P 5	20	66
P 6	25	64
P 7	30	63
P 8		
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.

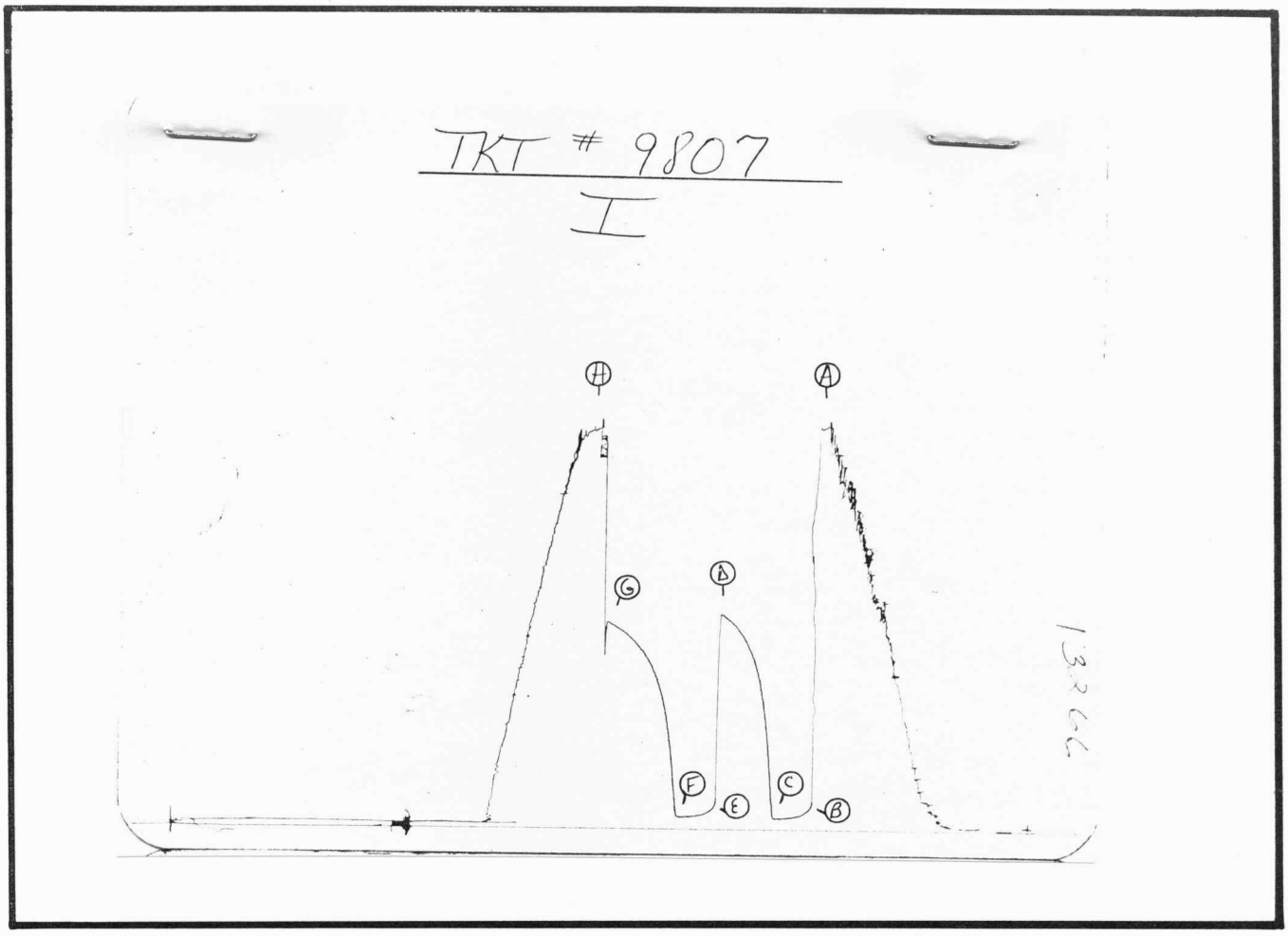
Point	Minutes	Press.
	0	63
	3	344
	6	590
	9	734
	12	842
	15	916
	18	966
	21	1014
	24	1054
	27	1082
	30	1114
	33	1131
	36	1151
	39	1167
	42	1175

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

Point	Minutes	Press.
	0	82
	5	82
	10	82
	15	75
	20	71
	25	69
	30	69

Final Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Minutes	Press.
	0	69
	3	254
	6	459
	9	614
	12	711
	15	786
	18	846
	21	892
	24	930
	27	966
	30	988
	33	1013
	36	1038
	39	1056
	42	1072
	45	1086
	48	1102
	51	1114
	54	1126
	57	1130



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2219	2209	PSI
(B)	First Initial Flow Pressure	71	77	PSI
(C)	First Final Flow Pressure	60	63	PSI
(D)	Initial Closed-in Pressure	1177	1175	PSI
(E)	Second Initial Flow Pressure	71	82	PSI
(F)	Second Final Flow Pressure	60	69	PSI
(G)	Final Closed-in Pressure	1127	1130	PSI
(H)	Final Hydrostatic Mud	2189	2189	PSI

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

Company Mull Drilling Company, Inc. Lease & Well No. Fitzgerald #1

Elevation 3312 Ground Level Formation - Effective Pay - Ft. Ticket No. 9808

Date 12/ 12/81 Sec. 33 Twp. 11S Range 36W County Logan State Kansas

Test Approved by Dallas Donner Western Representative Roger Lisenby-Joady Hurtt

Formation Test No. 3 Interval Tested from 4436 ft. to 4562 ft. Total Depth 4562 ft.

Packer Depth 4431 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4436 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4460 ft. Recorder Number 13266 Cap. 4000

Bottom Recorder Depth (Outside) 4463 ft. * Recorder Number 13265 Cap. 3975

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

Drilling Contractor Blue Goose Drlg. Rig #2 Drill Collar Length 275 I. D. 2¼ in.

Mud Type starch Viscosity 63 Weight Pipe Length - I. D. - in.

Weight 9.2 Water Loss 13.6 cc. Drill Pipe Length 4140 I. D. 3.8 in.

Chlorides 43,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make - Serial Number - Anchor Length 126 ft. Size 5½ in. 3 D.C.

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 increasing blow to seven inches in bucket. Final flow period weak increasing blow to nine inches in bucket.

Recovered 30 ft. of 95% oil;3% water;2% mud (too thick to get gravity)

Recovered 60 ft. of 87% oil;6% water;7% mud

Recovered 60 ft. of 92% oil;5% water;3% mud

Recovered 60 ft. of 82% oil;15% gas;2% water;1% mud

Recovered 60 ft. of 80% oil;10% gas;5% water;5% mud

Recovered 60' of 79% oil;10% gas;6% water;5% mud

Remarks: TOTAL RECOVERY 330 feet of slightly gassy frothy mud specked oil.

* READ BOTTOM RECORDER

Time Set Packer(s) 9:30 ~~A.M.~~ P.M. Time Started Off Bottom 12:45 A.M. ~~P.M.~~ Maximum Temperature 128°

Initial Hydrostatic Pressure			(A)	2287	P.S.I.	
Initial Flow Period	Minutes	30	(B)	84 P.S.I.	to (C)	96 P.S.I.
Initial Closed In Period	Minutes	45	(D)	1249	P.S.I.	
Final Flow Period	Minutes	60	(E)	155 P.S.I.	to (F)	171 P.S.I.
Final Closed In Period	Minutes	60	(G)	1190	P.S.I.	
Final Hydrostatic Pressure			(H)	2228	P.S.I.	

WTC

WESTERN TESTING CO., INC.
Pressure Data

Date 12/12/81 Test Ticket No. 9808

Recorder No. 13265 Capacity 3975 Location 4463 Ft.

Clock No. -- Elevation 3312 Ground Level Well Temperature 128 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2287 P.S.I.		Open Tool	9:30P M	
B	First Initial Flow Pressure	84 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	96 P.S.I.		Initial Closed-in Pressure	45 Mins.	45 Mins.
D	Initial Closed-in Pressure	1249 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	155 P.S.I.		Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	171 P.S.I.				
G	Final Closed-in Pressure	1190 P.S.I.				
H	Final Hydrostatic Mud	2228 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	84
P 2	5	84
P 3	10	84
P 4	15	84
P 5	20	89
P 6	25	95
P 7	30	96
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.

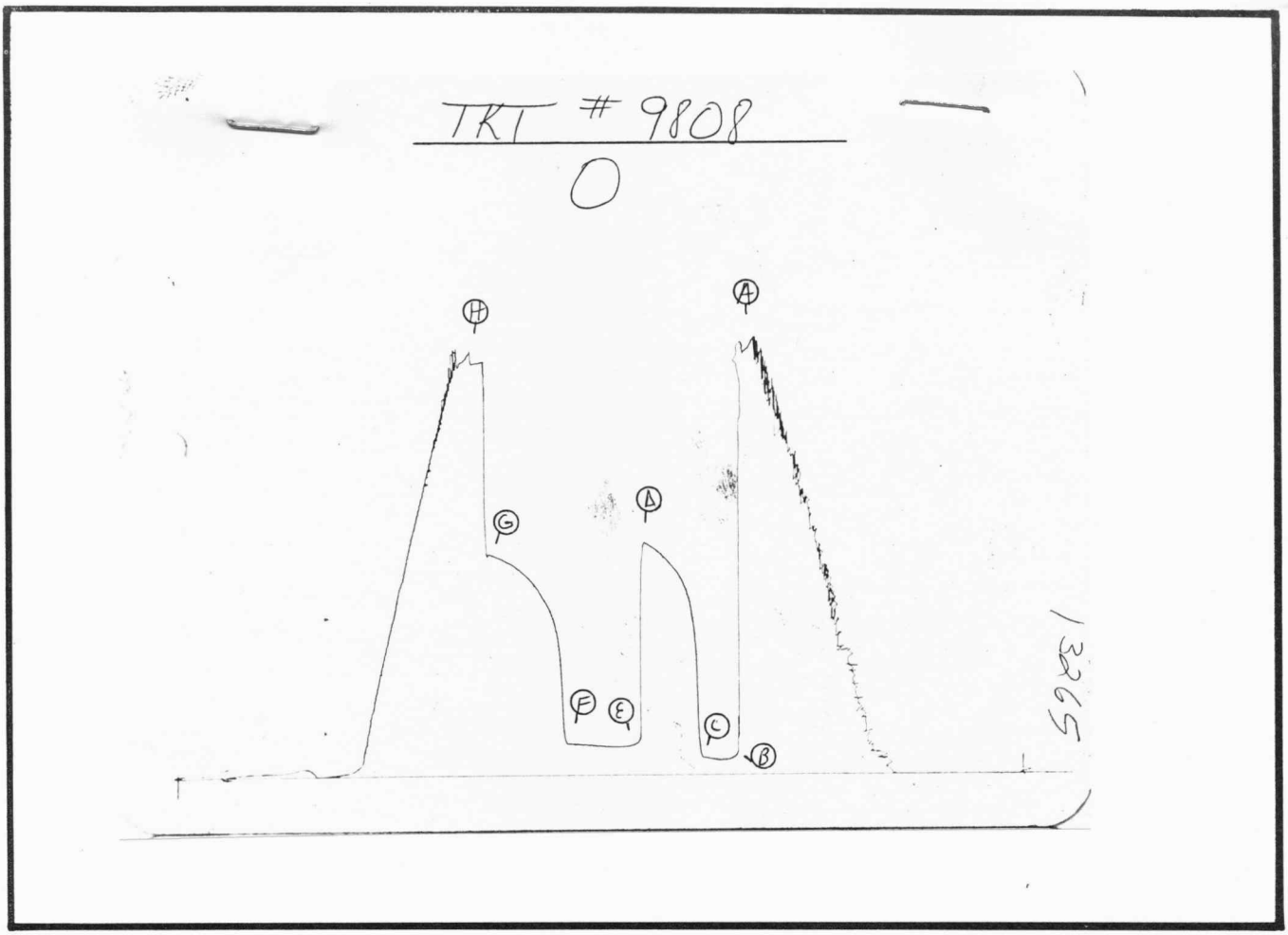
Point	Minutes	Press.
	0	96
	3	704
	6	857
	9	964
	12	1020
	15	1065
	18	1099
	21	1123
	24	1148
	27	1170
	30	1190
	33	1210
	36	1224
	39	1237
	42	1249
	45	1249

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

Point	Minutes	Press.
	0	155
	5	155
	10	155
	15	155
	20	155
	25	156
	30	160
	35	162
	40	164
	45	167
	50	169
	55	170
	60	171

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

Point	Minutes	Press.
	0	171
	3	689
	6	810
	9	868
	12	917
	15	949
	18	984
	21	1016
	24	1045
	27	1065
	30	1085
	33	1105
	36	1121
	39	1136
	42	1146
	45	1156
	48	1167
	51	1178
	54	1184
	57	1190
	60	1190



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2297	2287	PSI
(B)	First Initial Flow Pressure	80	84	PSI
(C)	First Final Flow Pressure	90	96	PSI
(D)	Initial Closed-in Pressure	1228	1249	PSI
(E)	Second Initial Flow Pressure	151	155	PSI
(F)	Second Final Flow Pressure	161	171	PSI
(G)	Final Closed-in Pressure	1188	1190	PSI
(H)	Final Hydrostatic Mud	2218	2228	PSI

Home Office: Wichita, Kansas 67201

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

Company Mull Drilling Company, Inc. Lease & Well No. Fitzgerald #1

Elevation 3312 Ground Level Formation - Effective Pay - Ft. Ticket No. 9809

Date 12/ 14/81 Sec. 33 Twp. 11S Range 36W County Logan State Kansas

Test Approved by Dallas Donner Western Representative Roger Lisenby-Joady Hurtt

Formation Test No. 4 Interval Tested from 4563 ft. to 4625 ft. Total Depth 4625 ft.

Packer Depth 4558 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4563 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4582 ft. Recorder Number 13266 Cap. 4000

Bottom Recorder Depth (Outside) 4585 ft. *Recorder Number 13265 Cap. 3975

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

Drilling Contractor Blue Goose Drlg. Rig #2 Drill Collar Length 274 I. D. 2¼ in.

Mud Type starch Viscosity 52 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 11.2 cc. Drill Pipe Length 4268 I. D. 3.8 in.

Chlorides 40,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make - Serial Number - Anchor Length 62 ft. Size 5½ in. 1 D.C.

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 steady blow one half inch in bucket. Final flow period no blow flushed tool ; very weak blow and died in twenty-two minutes.

Recovered 20 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 1:32 A.M. ~~P.M.~~ Time Started Off Bottom 4:17 A.M. ~~P.M.~~ Maximum Temperature 128°

Initial Hydrostatic Pressure			(A)	2370	P.S.I.	
Initial Flow Period	Minutes 30		(B)	73	P.S.I. to (C)	73 P.S.I.
Initial Closed In Period	Minutes 45		(D)	809	P.S.I.	
Final Flow Period	Minutes 30		(E)	146	P.S.I. to (F)	80 P.S.I.
Final Closed In Period	Minutes 60		(G)	734	P.S.I.	
Final Hydrostatic Pressure			(H)	2280	P.S.I.	

WTC

WESTERN TESTING CO., INC.
Pressure Data

Date 12/14/81 Test Ticket No. 9809

Recorder No. 13266 Capacity 4000 Location 4582 Ft.

Clock No. - Elevation 3312 Ground Level Well Temperature 128 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2370 P.S.I.		Open Tool	1:32A M	
B	First Initial Flow Pressure	73 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	73 P.S.I.		Initial Closed-in Pressure	45 Mins.	45 Mins.
D	Initial Closed-in Pressure	809 P.S.I.		Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	146 P.S.I.		Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	80 P.S.I.				
G	Final Closed-in Pressure	734 P.S.I.				
H	Final Hydrostatic Mud	2280 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	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		
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.

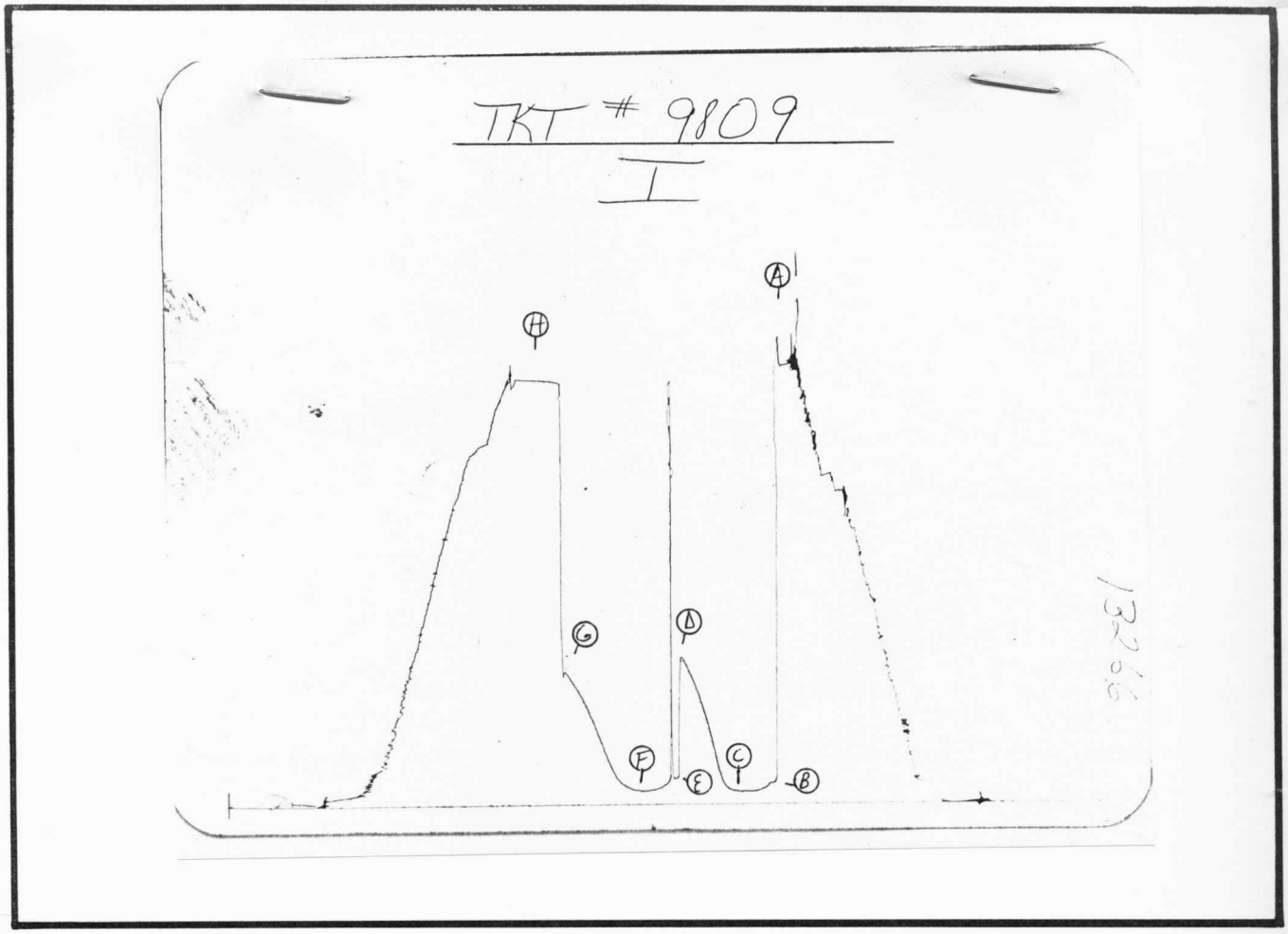
Point	Minutes	Press.
	0	73
	3	77
	6	84
	9	102
	12	140
	15	210
	18	301
	21	388
	24	467
	27	531
	30	589
	33	649
	36	705
	39	750
	42	792
	45	809

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

Point	Minutes	Press.
	0	146
	5	FLUSHED TOOL
	10	114
	15	93
	20	83
	25	78
	30	80

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

Point	Minutes	Press.
	0	80
	3	82
	6	88
	9	99
	12	112
	15	128
	18	151
	21	191
	24	240
	27	285
	30	346
	33	402
	36	461
	39	506
	42	552
	45	596
	48	634
	51	668
	54	700
	57	728
	60	734



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2568	2370	PSI
(B)	First Initial Flow Pressure	71	73	PSI
(C)	First Final Flow Pressure	71	73	PSI
(D)	Initial Closed-in Pressure	798	809	PSI
(E)	Second Initial Flow Pressure	81	146	PSI
(F)	Second Final Flow Pressure	71	80	PSI
(G)	Final Closed-in Pressure	728	734	PSI
(H)	Final Hydrostatic Mud	2278	2280	PSI

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

Company Mull Drilling Company, Inc. Lease & Well No. Fitzgerald #1

Elevation 3312 Ground Level Formation Cherokee Effective Pay - Ft. Ticket No. 9810

Date 12/15/81 Sec. 33 Twp. 11S Range 36W County Logan State Kansas

Test Approved by Dallas Donner Western Representative Roger Lisenby-Joady Hurtt

Formation Test No. 5 Interval Tested from 4703 ft. to 4723 ft. Total Depth 4723 ft.

Packer Depth 4698 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4703 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4712 ft. Recorder Number 13266 Cap. 4000

Bottom Recorder Depth (Outside) 4715 ft. Recorder Number 13265 Cap. 3975

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

Drilling Contractor Blue Goose Dlrg. Rig #2 Drill Collar Length 304 I. D. 2¼ in.

Mud Type starch Viscosity 66 Weight Pipe Length - I. D. - in.

Weight 9.6 Water Loss 12.0 cc. Drill Pipe Length 4378 I. D. 3.8 in.

Chlorides 42,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make - Serial Number - Anchor Length 20 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 steady blow one half inch in bucket. Final flow period weak blow died in three minutes; flushed tool - no blow.

Recovered 10 ft. of oil specked mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:23 A.M. ~~P.M.~~ Time Started Off Bottom 10:08 A.M. P.M. Maximum Temperature 129°

Initial Hydrostatic Pressure			(A) 2434	P.S.I.		
Initial Flow Period	Minutes 30	(B) 54	P.S.I. to	(C) 54	P.S.I.	
Initial Closed In Period	Minutes 42	(D) 65	P.S.I.			
Final Flow Period	Minutes 30	(E) 60	P.S.I. to	(F) 58	P.S.I.	
Final Closed In Period	Minutes 54	(G) 67	P.S.I.			
Final Hydrostatic Pressure			(H) 2380	P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 12/15/81 Test Ticket No. 9810

Recorder No. 13266 Capacity 4000 Location 4712 Ft.

Clock No. --- Elevation 3312 Ground Level Well Temperature 129 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2434 P.S.I.		Open Tool	7:23A M	
B	First Initial Flow Pressure	54 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	54 P.S.I.		Initial Closed-in Pressure	45 Mins.	42 Mins.
D	Initial Closed-in Pressure	65 P.S.I.		Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	60 P.S.I.		Final Closed-in Pressure	60 Mins.	54 Mins.
F	Second Final Flow Pressure	58 P.S.I.				
G	Final Closed-in Pressure	67 P.S.I.				
H	Final Hydrostatic Mud	2380 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	54
P 2	5	54
P 3	10	54
P 4	15	54
P 5	20	54
P 6	25	54
P 7	30	54
P 8		
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	54
	3	54
	6	53
	9	52
	12	53
	15	54
	18	55
	21	56
	24	57
	27	58
	30	60
	33	62
	36	63
	39	64
	42	65

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

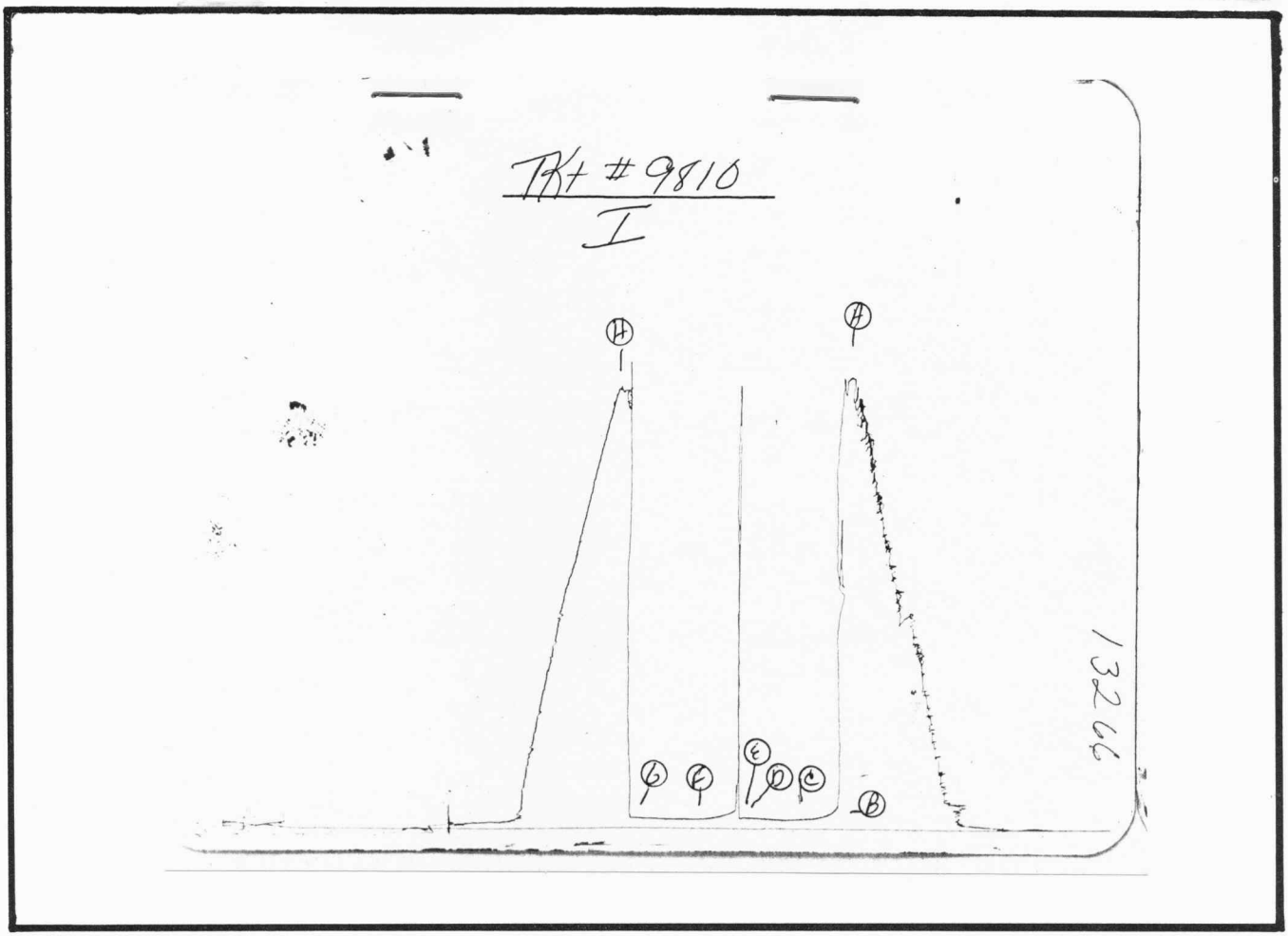
Point	Minutes	Press.
	0	60
	5	99
	10	81
	15	71
	20	64
	25	60
	30	58

Flushed tool

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

Point	Minutes	Press.
	0	58
	3	58
	6	58
	9	58
	12	58
	15	59
	18	59
	21	59
	24	59
	27	59
	30	60
	33	61
	36	62
	39	63
	42	64
	45	64
	48	65
	51	66
	54	67

WTC - 4



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2348	2434	PSI
(B)	First Initial Flow Pressure	50	54	PSI
(C)	First Final Flow Pressure	50	54	PSI
(D)	Initial Closed-in Pressure	60	65	PSI
(E)	Second Initial Flow Pressure	60	60	PSI
(F)	Second Final Flow Pressure	60	58	PSI
(G)	Final Closed-in Pressure	60	67	PSI
(H)	Final Hydrostatic Mud	2338	2380	PSI