

Casing perms. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 512408
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

[illegible]

Gauge No. 6041				Depth 2239				Clock No. 14235				12 hour		Ticket # 512408	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure					
Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	PSIG Temp. Corr.
0	.0000	15	.0000	28	.0000	22	.0333***	.0000	36						
1	.0604	18	.0200*	144	.0732**	22	.0733	.0333***	500						
2	.1208	19	.0469	301	.1398	26	.1133	.0733	600						
3	.1812	20	.0736	440	.2063	29	.1532	.1133	619						
4	.2416	24	.1004	541	.2729	31	.1932	.1532	626						
5	.3020	28	.1272	600	.3394	33	.2332	.1932	630						
6			.1539	622	.4060	36	.2731	.2332	633						
7			.1807	632			.3131	.2731	635						
8			.2075	636			.3531	.3131	635						
9			.2342	639			.3930	.3531	637						
10			.2610	640			.4330	.3930	638						
11			.2878	641			.4730	.4330	638						
12			.3146	642			.5130	.4730	639						
13			.3413	643			.5529	.5130	639						
14			.3681	643			.5930	.5529	639						
15			.3950	643				.5930	640						

Gauge No. 1838				Depth 2282				Clock No. 3722				12 hour	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure			
Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.
0	.0000	66	.0000	42	.0000	58	.0332***	.0000	51				
1	.0604	38	.0198*	160	.0736**	40	.0730	.0332***	493				
2	.1208	38	.0463	330	.1405	40	.1129	.0730	605				
3	.1812	38	.0727	457	.2073	43	.1527	.1129	627				
4	.2416	39	.0992	550	.2742	46	.1926	.1527	636				
5	.3020	42	.1256	603	.3411	48	.2324	.1926	641				
6			.1520	629	.4080	51	.2722	.2324	644				
7			.1785	639			.3121	.2722	646				
8			.2049	644			.3519	.3121	648				
9			.2314	648			.3918	.3519	649				
10			.2578	649			.4316	.3918	650				
11			.2842	651			.4714	.4316	651				
12			.3107	652			.5113	.4714	651				
13			.3371	653			.5511	.5113	652				
14			.3636	653			.5910	.5511	652				
15			.3900	653				.5910	652				

Gauge No. 1838				Depth 2282				Clock No. 3722				12 hour	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure			
Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.
0	.0000	66	.0000	42	.0000	58	.0332***	.0000	51				
1	.0604	38	.0198*	160	.0736**	40	.0730	.0332***	493				
2	.1208	38	.0463	330	.1405	40	.1129	.0730	605				
3	.1812	38	.0727	457	.2073	43	.1527	.1129	627				
4	.2416	39	.0992	550	.2742	46	.1926	.1527	636				
5	.3020	42	.1256	603	.3411	48	.2324	.1926	641				
6			.1520	629	.4080	51	.2722	.2324	644				
7			.1785	639			.3121	.2722	646				
8			.2049	644			.3519	.3121	648				
9			.2314	648			.3918	.3519	649				
10			.2578	649			.4316	.3918	650				
11			.2842	651			.4714	.4316	651				
12			.3107	652			.5113	.4714	651				
13			.3371	653			.5511	.5113	652				
14			.3636	653			.5910	.5511	652				
15			.3900	653				.5910	652				

Gauge No. 1838				Depth 2282				Clock No. 3722				12 hour	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure			
Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.
0	.0000	66	.0000	42	.0000	58	.0332***	.0000	51				
1	.0604	38	.0198*	160	.0736**	40	.0730	.0332***	493				
2	.1208	38	.0463	330	.1405	40	.1129	.0730	605				
3	.1812	38	.0727	457	.2073	43	.1527	.1129	627				
4	.2416	39	.0992	550	.2742	46	.1926	.1527	636				
5	.3020	42	.1256	603	.3411	48	.2324	.1926	641				
6			.1520	629	.4080	51	.2722	.2324	644				
7			.1785	639			.3121	.2722	646				
8			.2049	644			.3519	.3121	648				
9			.2314	648			.3918	.3519	649				
10			.2578	649			.4316	.3918	650				
11			.2842	651			.4714	.4316	651				
12			.3107	652			.5113	.4714	651				
13			.3371	653			.5511	.5113	652				
14			.3636	653			.5910	.5511	652				
15			.3900	653				.5910	652				

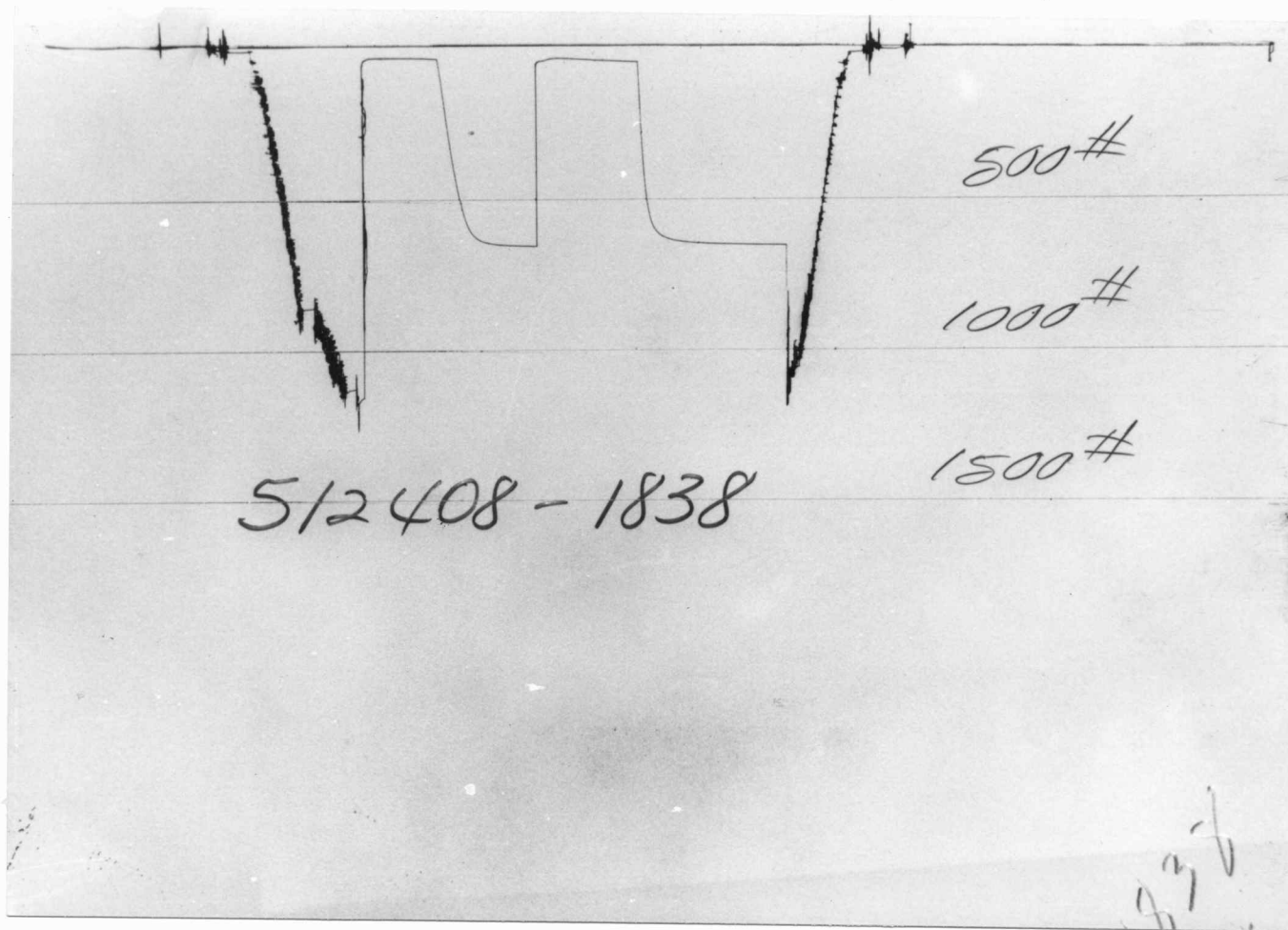
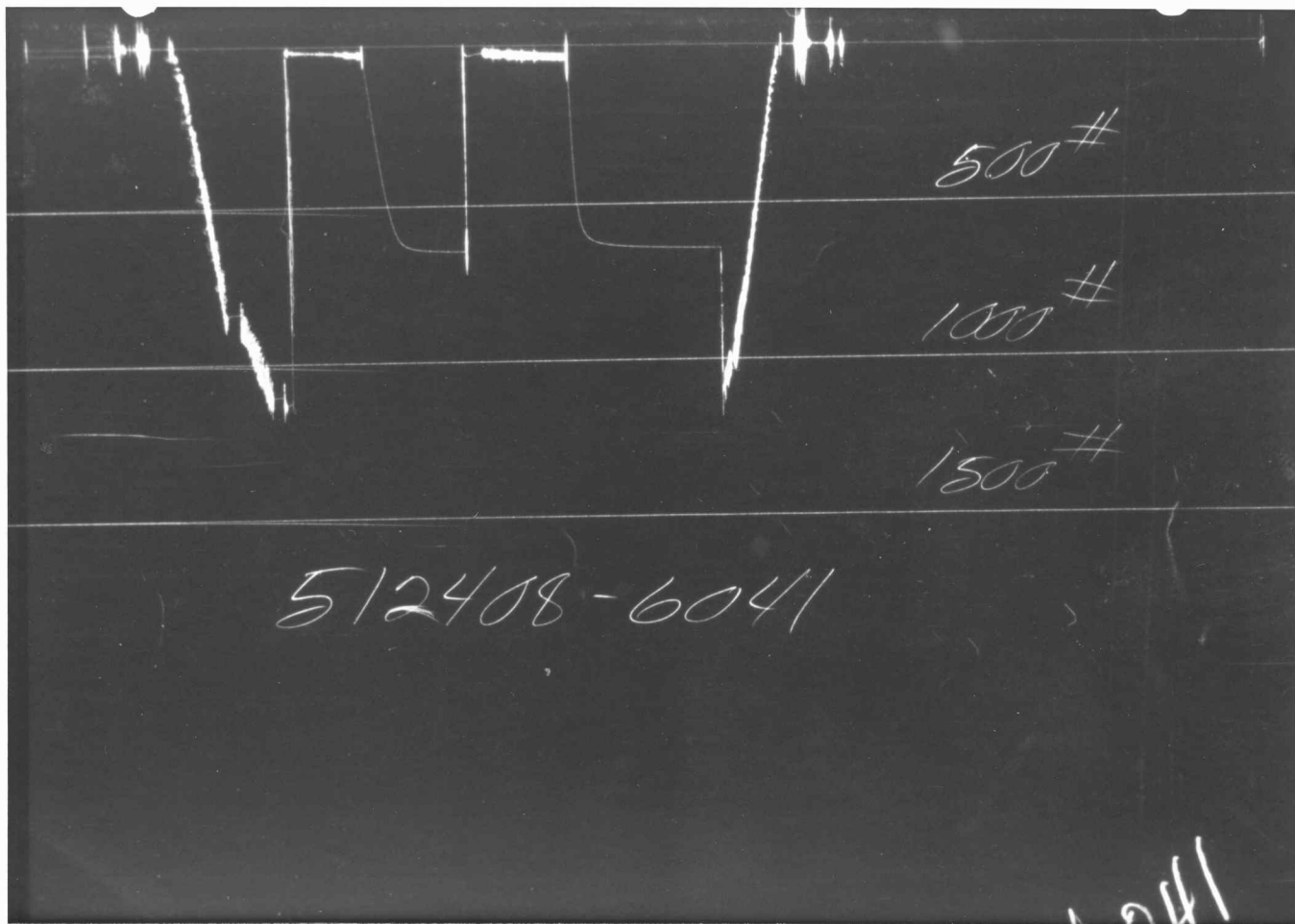
Gauge No. 1838				Depth 2282				Clock No. 3722				12 hour	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure			
Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.
0	.0000	66	.0000	42	.0000	58	.0332***	.0000	51				
1	.0604	38	.0198*	160	.0736**	40	.0730	.0332***	493				
2	.1208	38	.0463	330	.1405	40	.1129	.0730	605				
3	.1812	38	.0727	457	.2073	43	.1527	.1129	627				
4	.2416	39	.0992	550	.2742	46	.1926	.1527	636				
5	.3020	42	.1256	603	.3411	48	.2324	.1926	641				
6			.1520	629	.4080	51	.2722	.2324	644				
7			.1785	639			.3121	.2722	646				
8			.2049	644			.3519	.3121	648				
9			.2314	648			.3918	.3519	649				
10			.2578	649			.4316	.3918	650				
11			.2842	651			.4714	.4316	651				
12			.3107	652			.5113	.4714	651				
13			.3371	653			.5511	.5113	652				
14			.3636	653			.5910	.5511	652				
15			.3900	653				.5910	652				

Gauge No. 1838				Depth 2282				Clock No. 3722				12 hour	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure			
Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.
0	.0000	66	.0000	42	.0000	58	.0332***	.0000	51				
1	.0604	38	.0198*	160	.0736**	40	.0730	.0332***	493				
2	.1208	38	.0463	330	.1405	40	.1129	.0730	605				
3	.1812	38	.0727	457	.2073	43	.1527	.1129	627				
4	.2416	39	.0992	550	.2742	46	.1926	.1527	636				
5	.3020	42	.1256	603	.3411	48	.2324	.1926	641				
6			.1520	629	.4080	51	.2722	.2324	644				
7			.1785	639			.3121	.2722	646				
8			.2049	644			.3519	.3121	648				
9			.2314	648			.3918	.3519	649				
10			.2578	649			.4316	.3918	650				
11			.2842	651			.4714	.4316	651				
12			.3107	652			.5113	.4714	651				
13			.3371	653			.5511	.5113	652				
14			.3636	653			.5910	.5511	652				
15			.3900	653				.5910	652				

Gauge No. 1838				Depth 2282				Clock No. 3722				12 hour	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure			
Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.	Time Defl. "000"	$\log \frac{t + \theta}{\theta}$	Time Defl. "000"	PSIG Temp. Corr.
0	.0000	66	.0000	42	.0000	58	.0332***	.0000	51				
1	.0604	38	.0198*	160	.0736**	40	.0730	.0332***	493				
2	.1208	38	.0463	330	.1405	40	.1129	.0730	605				
3	.1812												

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5.75"	2.75"	12"	
Reversing Sub				
Water Cushion Valve	4.5"	3.826"	2235'	
Drill Pipe				
Drill Collars				
Handling Sub & Choke Assembly	5"	.87"	48.92"	
Dual CIP Valve				
Dual CIP Sampler	5"	.75"	60.21"	2238'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	2239'
Hydraulic Jar				
VR Safety Joint	5"	1"	33.40"	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	48.89"	2249'
Distributor				
Packer Assembly	6 3/4"	1.53"	48.89"	2254'
Flush Joint Anchor	5"	2.37"	32'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	3.06"	49.63"	2282'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				2286'

PRESSURE



Each Horizontal Line Equal to 1000 p.s.i.

Casing perms. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. _____
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

[illegible]

Gauge No. 6160		Depth 2372'		Clock No. 7098		12 hour		Ticket # 512438	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0 .0000	35	.0000	32	.0000	28	.0000	30		
1 .3100	32	.3850	239	.3990	30	.0330	147*		
2						.0792	314		
3						.1254	462		
4						.1716	563		
5						.2179	625		
6						.2641	658		
7						.3103	676		
8						.3565	687		
9						.4027	694		
10						.4489	698		
11						.4951	702		
12						.5415	704		
13						.5876	707		
14						.6338	708		
15						.6800	709		

Gauge No. 6159		Depth 2391'		Clock No. 6947		12 hour	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0 .0000	48	.0000	44	.0000	39	.0000	41
1 .3130	44	.3950	239	.4140	41	.0336	159*
2						.0807	323
3						.1278	469
4						.1749	571
5						.2220	633
6						.2691	668
7						.3162	689
8						.3633	701
9						.4104	707
10						.4575	713
11						.5046	717
12						.5517	718
13						.5988	721
14						.6459	723
15						.6930	723

Reading Interval 7

REMARKS: *Interval = 5 minutes

Minutes

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6.25"	2.75"	1'	
Water Cushion Valve				
Drill Pipe	4.50"	3.826"	2315'	
Drill Collars	6.25"	2.25"	32'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	6.25'	2350'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	2357'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.75"	4'	2372'
Hydraulic Jar				
VR Safety Joint	5"	1"	2.85'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	5.85'	2364'
Distributor				
Packer Assembly	6.75"	1.53"	5.85'	2370'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	3.84"	13'	
Blanked-Off B.T. Running Case	5"	2.75"	5.50'	2391'
Total Depth				2395'

512438-6160

PRESSURE

TIME

512438-6159

Each Horizontal Line Equal to 1000 p.s.i.

TEMPERATURE RECORDER CHART



10° each circle

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_{ot}	= 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_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

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

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company MURFIN DRILLING CO.

Lease and Well No. FISHER #1

County EDWARDS State KANSAS Date 9-26-78

Formation Test No. 3 Total Depth 2435 Elev. _____

Interval Tested 2414 To 2435 Anchor Length 21'

Size Hole 7 7/8 Size Drill Pipe 4 1/2 F Size Packer 6 3/4

Mud Weight 9.5 Viscosity 42 Water Loss 11.4 c.c. Bottom Hole Temp. 98 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 17754

Length of Drill Collar _____ I. D. _____ Length Flexweight _____ I. D. _____

RECOVERY

STRONG BLOW DECREASING TO WEAK BLOW ON BOTH OPENINGS.

30 FEET OF MUD.

Lease and Well No.

FISHER #1

36-255-17W

Formation Test No.

3

COMPANY MURFIN DRILLING CO. DATE 9-26-78

LEASE FISHER WELL NO. 1 TEST NO. 3 TICKET NO. 17754

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		1235
INITIAL CLOSED IN PRESSURE	60 MINUTES	656
INITIAL FLOW	45 MINUTES	41 - 41
FINAL FLOW	45 MINUTES	39 - 39
FINAL CLOSED IN PRESSURE	60 MINUTES	679
FINAL HYDRO MUD PRESSURE		1226

TOTAL DEPTH 2435

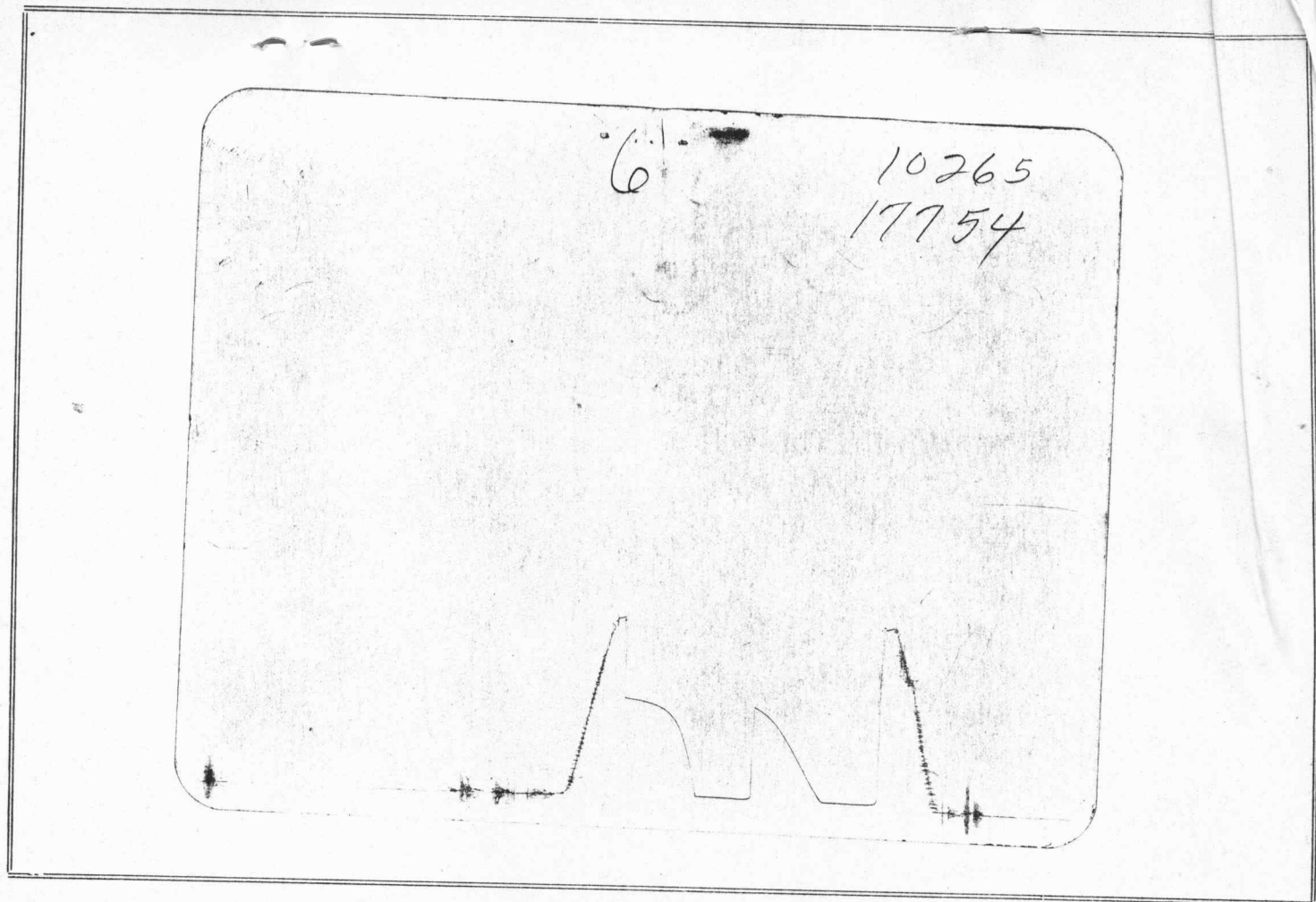
PACKER DEPTH 2414

AK-1 NO. 10265 DEPTH 2430

1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	41		41		39		39
	41		99		39		235
	41		166		39		396
	41		230		39		505
			300				558
			378				600
			440				619
			500				637
			556				648
			600				658
			628				665
			644				672
			656				679
15	MINUTE INTERVAL	5	MINUTE INTERVAL	15	MINUTE INTERVAL	5	MINUTE INTERVAL

REMARKS _____

SPECIAL PRESSURE DATA



Tool Open: 1st Flow hr. 45 mins: Shut-in Initial hr. 60 min: 2nd Flow hr. 45 min: Shut-in Final hr. 60 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1251</u>	<u>1235</u>
(B) Initial 1st Flow Pressure	<u>46</u>	<u>41</u>
(C) Final 1st Flow Pressure	<u>46</u>	<u>41</u>
(D) Initial Shut-in Pressure	<u>669</u>	<u>656</u>
(E) Initial 2nd Flow Pressure	<u>46</u>	<u>39</u>
(F) Final 2nd Flow Pressure	<u>46</u>	<u>39</u>
(G) Final Shut-in Pressure	<u>693</u>	<u>679</u>
(H) Final Hydrostatic Pressure	<u>1227</u>	<u>1226</u>

17754

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company MURFIN DRILLING CO.

Lease and Well No. FISHER #1

County EDWARDS State KANSAS Date 9-27-78

Formation Test No. 4 Total Depth 2760 Elev. _____
 Interval Tested 2730 To 2760 Anchor Length 30'
 Size Hole 7 7/8 Size Drill Pipe 4 1/2 F Size Packer 6 3/4
 Mud Weight 9.5 Viscosity 42 Water Loss 9.2 c.c. Bottom Hole Temp. 100 °F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 17755
 Length of Drill Collar _____ I. D. _____ Length Flexweight _____ I. D. _____

RECOVERY

STRONG BLOW GAS TO SURFACE IN 6 MINUTES. 153M.C.F.P.D.

FIRST OPENING: GAUGED THROUGH 1/2" ORIFICE.

10 MINUTES	86.3 M.C.F.P.D.
20 MINUTES	94.5 M.C.F.P.D.
30 MINUTES	116 M.C.F.P.D.
40 MINUTES	121 M.C.F.P.D.
45 MINUTES	129 M.C.F.P.D.

SECOND OPENING:

10 MINUTES	147 M.C.F.P.D.
20 MINUTES	153 M.C.F.P.D.
30 MINUTES	153 M.C.F.P.D.
40 MINUTES	153 M.C.F.P.D.
45 MINUTES	153 M.C.F.P.D.

120 FEET OF GAS CUT MUD.

Lease and Well No. FISHER #1

36-255-17M

Formation Test No. 4

COMPANY MURFIN DRILLING CO. DATE 9-27-78

LEASE FISHER WELL NO. 1 TEST NO. 4 TICKET NO. 17755

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		1416
INITIAL CLOSED IN PRESSURE	60 MINUTES	912
INITIAL FLOW	45 MINUTES	97 - 120
FINAL FLOW	45 MINUTES	113 - 124
FINAL CLOSED IN PRESSURE	60 MINUTES	900
FINAL HYDRO MUD PRESSURE		1384

TOTAL DEPTH 2760

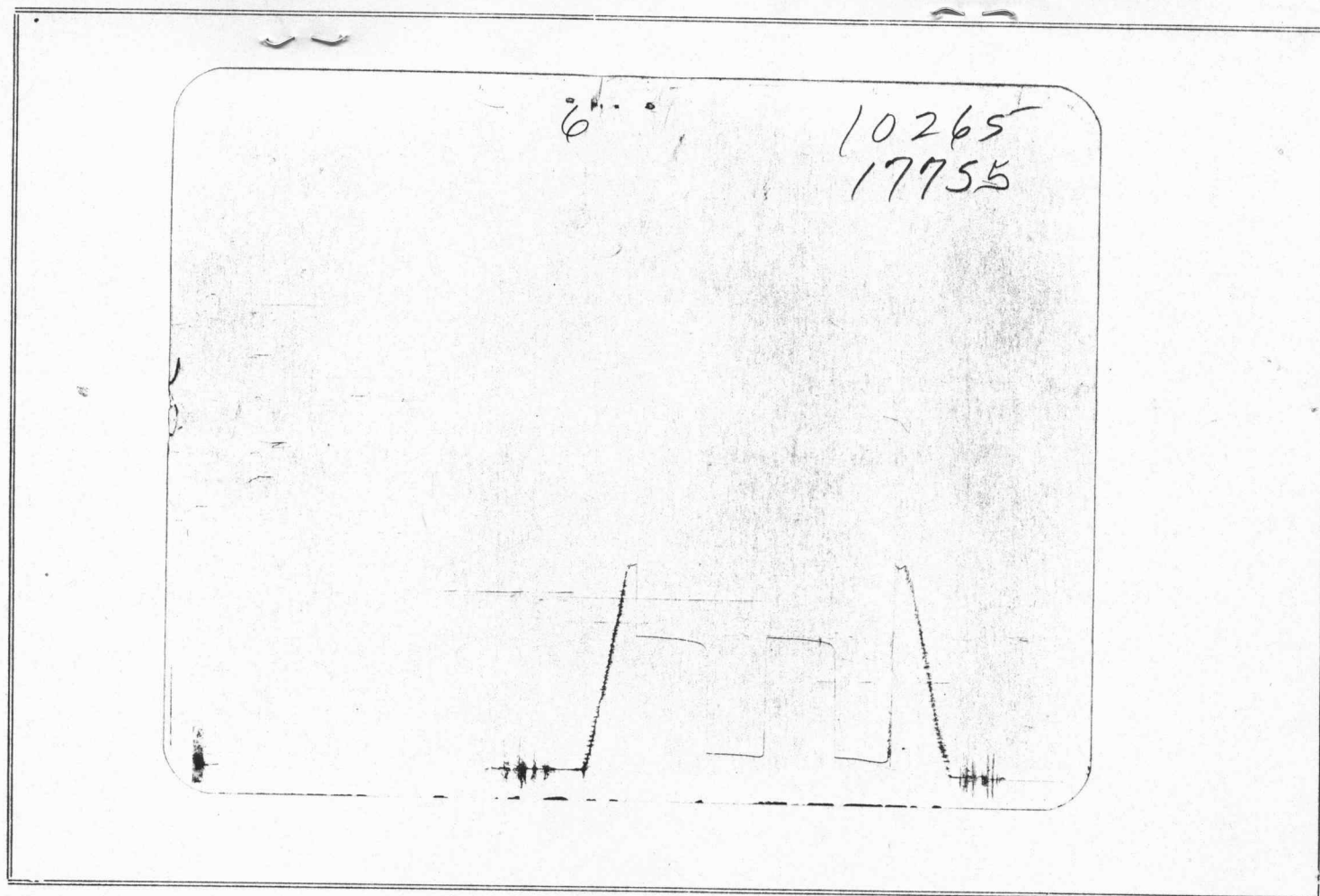
PACKER DEPTH 2740

AK-1 NO. 10265 DEPTH 2755

1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	97		120		113		124
	106		870		120		860
	120		888		124		872
	120		893		124		879
			895				886
			898				892
			900				894
			902				896
			905				898
			907				900
			909				900
			912				900
			912				900
15	MINUTE INTERVAL	5	MINUTE INTERVAL	15	MINUTE INTERVAL	5	MINUTE INTERVAL

REMARKS _____

SPECIAL PRESSURE DATA



Tool Open: 1st Flow 45 mins: Shut-in Initial 60 min: 2nd Flow 45 min: Shut-in Final 60 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1390</u>	<u>1416</u>
(B) Initial 1st Flow Pressure	<u>92</u>	<u>97</u>
(C) Final 1st Flow Pressure	<u>115</u>	<u>120</u>
(D) Initial Shut-in Pressure	<u>925</u>	<u>912</u>
(E) Initial 2nd Flow Pressure	<u>115</u>	<u>113</u>
(F) Final 2nd Flow Pressure	<u>115</u>	<u>124</u>
(G) Final Shut-in Pressure	<u>925</u>	<u>900</u>
(H) Final Hydrostatic Pressure	<u>1367</u>	<u>1384</u>

17755

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company MURFIN DRILLING CO.

Lease and Well No. FISHER #1

County EDWARDS

State

KANSAS

Date 9-28-78

Formation Test No.	<u>5</u>	Total Depth	<u>2890</u>	Elev.	
Interval Tested	<u>2865</u>	To	<u>2890</u>	Anchor Length	<u>25'</u>
Size Hole	<u>7 7/8</u>	Size Drill Pipe	<u>4 1/2</u> F	Size Packer	<u>6 3/4</u>
Mud Weight	<u>9.5</u>	Viscosity	<u>32</u>	Water Loss	<u>11</u> c.c.
				Bottom Hole Temp.	<u>106</u> °F
Chokes: Top	<u>1/2</u>	Bottom	<u>1/2</u>	Ticket No.	<u>17756</u>
Length of Drill Collar		I. D.		Length Flexweight	
				I. D.	

RECOVERY

STRONG BLOW THROUGHOUT TEST.

100 FEET OF MUD.

Lease and Well No.

FISHER #1

26-25S-17M

Formation Test No.

5

COMPANY MURFIN DRILLING CO.DATE 9-28-78LEASE FISHERWELL NO. 1TEST NO. 5TICKET NO. 17756

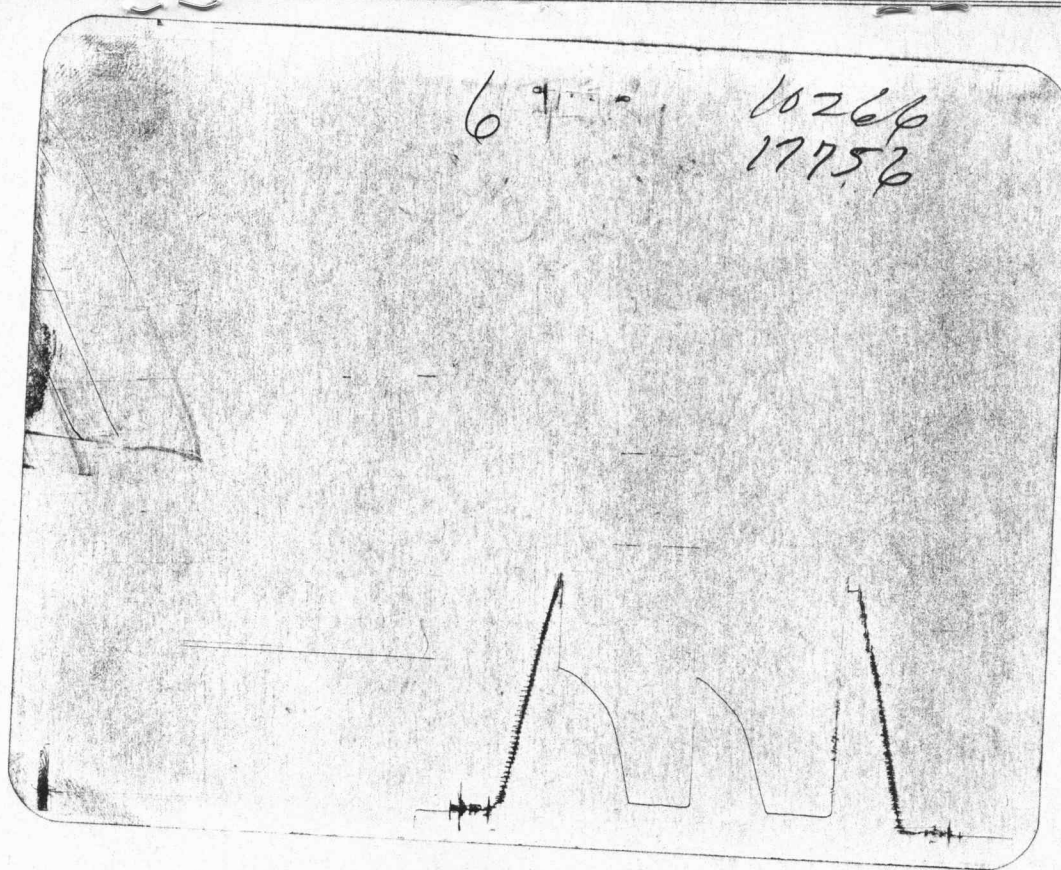
	TIME	PSI
INITIAL HYDRO MUD PRESSURE		1456
INITIAL CLOSED IN PRESSURE	60 MINUTES	879
INITIAL FLOW	45 MINUTES	75 - 75
FINAL FLOW	45 MINUTES	92 - 92
FINAL CLOSED IN PRESSURE	60 MINUTES	900
FINAL HYDRO MUD PRESSURE		1419

TOTAL DEPTH 2890PACKER DEPTH 2865AK-1 NO. 10266 DEPTH 2887

1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	75		75		92		92
	75		218		92		265
	75		322		92		339
	75		477		92		568
			577				638
			631				710
			682				755
			736				789
			771				827
			815				851
			848				874
			869				881
			879				900
15	MINUTE INTERVAL	5	MINUTE INTERVAL	15	MINUTE INTERVAL	5	MINUTE INTERVAL

REMARKS _____

SPECIAL PRESSURE DATA



Tool Open: 1st Flow ___ hr. 45 mins: Shut-in Initial ___ hr. 60 min: 2nd Flow ___ hr. 45 min: Shut-in Final ___ hr. 60 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1448</u>	<u>1456</u>
(B) Initial 1st Flow Pressure	<u>70</u>	<u>75</u>
(C) Final 1st Flow Pressure	<u>70</u>	<u>75</u>
(D) Initial Shut-in Pressure	<u>890</u>	<u>879</u>
(E) Initial 2nd Flow Pressure	<u>93</u>	<u>92</u>
(F) Final 2nd Flow Pressure	<u>93</u>	<u>92</u>
(G) Final Shut-in Pressure	<u>936</u>	<u>900</u>
(H) Final Hydrostatic Pressure	<u>1402</u>	<u>1419</u>

17756

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company MURFIN DRILLING CO.

Lease and Well No. FISHER #1-36

County EDWARDS State KANSAS Date 9-29-78

Formation Test No. 6 Total Depth 3335 Elev. _____
Interval Tested 3320 To 3335 Anchor Length 15'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 F H Size Packer 6 3/4
Mud Weight 9.6 Viscosity 37 Water Loss 8.0 c.c. Bottom Hole Temp. 106 °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 17757
Length of Drill Collar _____ I. D. _____ Length Flexweight _____ I. D. _____

RECOVERY

STRONG BLOW; GAS TO SURFACE IN 31 MINUTES. GAUGED 15.7
M.C.F.P.D. THROUGH 1/4" ORIFICE.

FIRST OPENING: GAUGED THROUGH 1/4" ORIFICE.

35 MINUTES	9.79 M.C.F.P.D.
40 MINUTES	10.1 M.C.F.P.D.
45 MINUTES	11.02 M.C.F.P.D.

SECOND OPENING:

10 MINUTES	11.02 M.C.F.P.D.
20 MINUTES	12.7 M.C.F.P.D.
30 MINUTES	14.3 M.C.F.P.D.
40 MINUTES	15.7 M.C.F.P.D.
50 MINUTES	15.7 M.C.F.P.D.
60 MINUTES	15.7 M.C.F.P.D.

540 FEET OF GASSY SALT WATER.

Lease and Well No. FISHER #1

36-253-17W

Formation Test No. 6

COMPANY MURFIN DRILLING CO. DATE 9-29-78

LEASE FISHER WELL NO. 1-36 TEST NO. 6 TICKET NO. 17757

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		1751
INITIAL CLOSED IN PRESSURE	60 MINUTES	1140
INITIAL FLOW	45 MINUTES	78 - 157*
FINAL FLOW	60 MINUTES	187 - 272
FINAL CLOSED IN PRESSURE	90 MINUTES	1126
FINAL HYDRO MUD PRESSURE		1744

TOTAL DEPTH 3335

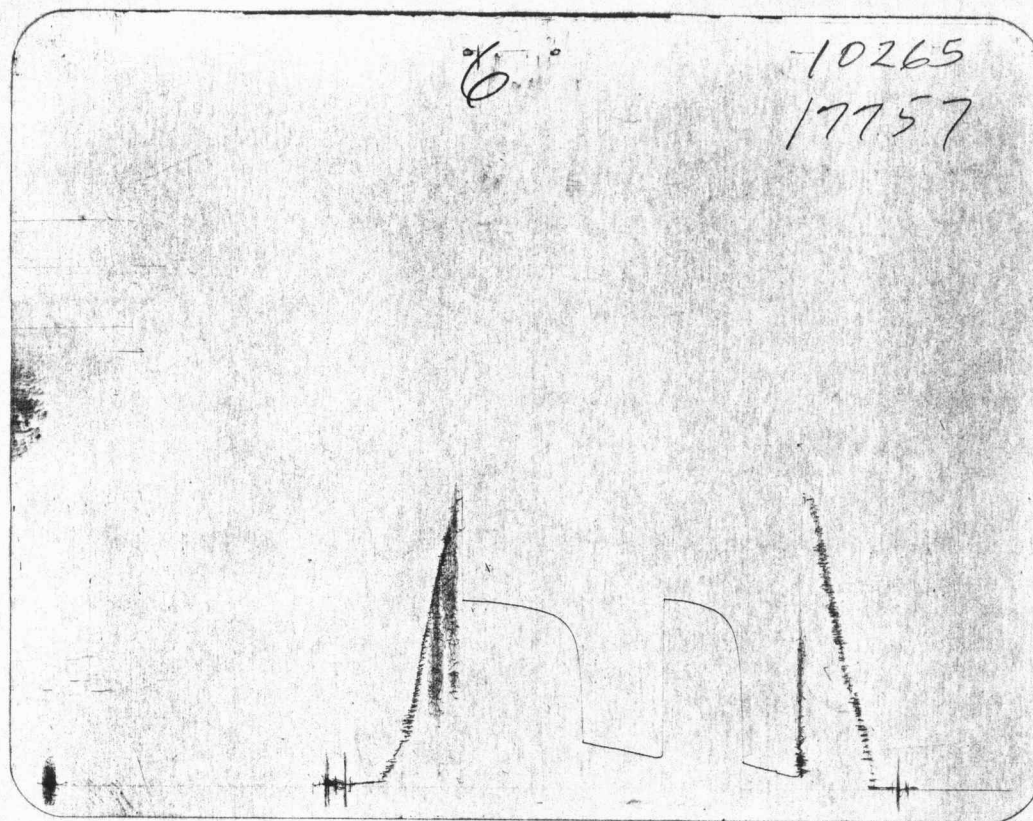
PACKER DEPTH 3320

AK-1 NO. 10265 DEPTH 3330

1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	78		157		187	272	1109
	94		914		203	898	1112
	127		998		230	972	1115
	157		1040		249	998	1118
			1063		272	1035	1121
			1086			1047	1124
			1102			1056	1126
			1114			1067	
			1121			1077	
			1128			1088	
			1135			1098	
			1137				
			1140			1105	
15	MINUTE INTERVAL	5	MINUTE INTERVAL	15	MINUTE INTERVAL	5	MINUTE INTERVAL

REMARKS * INITIAL FLOW 45 MINUTES.

SPECIAL PRESSURE DATA



Tool Open: 1st Flow 45 mins: Shut-in Initial 60 min: 2nd Flow 60 min: Shut-in Final 90 min

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1727</u>	<u>1751</u>
(B) Initial 1st Flow Pressure	<u>69</u>	<u>78</u>
(C) Final 1st Flow Pressure	<u>161</u>	<u>157</u>
(D) Initial Shut-in Pressure	<u>1134</u>	<u>1140</u>
(E) Initial 2nd Flow Pressure	<u>184</u>	<u>187</u>
(F) Final 2nd Flow Pressure	<u>276</u>	<u>272</u>
(G) Final Shut-in Pressure	<u>1134</u>	<u>1126</u>
(H) Final Hydrostatic Pressure	<u>1716</u>	<u>1744</u>

17757

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company MURFIN DRILLING CO.

Lease and Well No. FISHER #1-36

County EDWARDS State KANSAS Date 10-1-78

Formation Test No. 7 Total Depth 3990 Elev. _____
 Interval Tested 3958 To 3990 Anchor Length 32'
 Size Hole 7 7/8 Size Drill Pipe 4 1/2 F H Size Packer 6 3/4
 Mud Weight 9.5 Viscosity 40 Water Loss 6.8 c.c. Bottom Hole Temp. 109 °F
 Chokes: Top 1/2 Bottom 1/2 Ticket No. 17758
 Length of Drill Collar _____ I. D. _____ Length Flexweight _____ I. D. _____

RECOVERY

GOOD BLOW THROUGHOUT TEST.

1350 FEET OF SALT WATER.

Lease and Well No. FISHER #1 36-25S-17M Formation Test No. 7

COMPANY MURFIN DRILLING CO.DATE 10-1-78LEASE FISHERWELL
NO.1-36TEST
NO.7TICKET NO. 17758

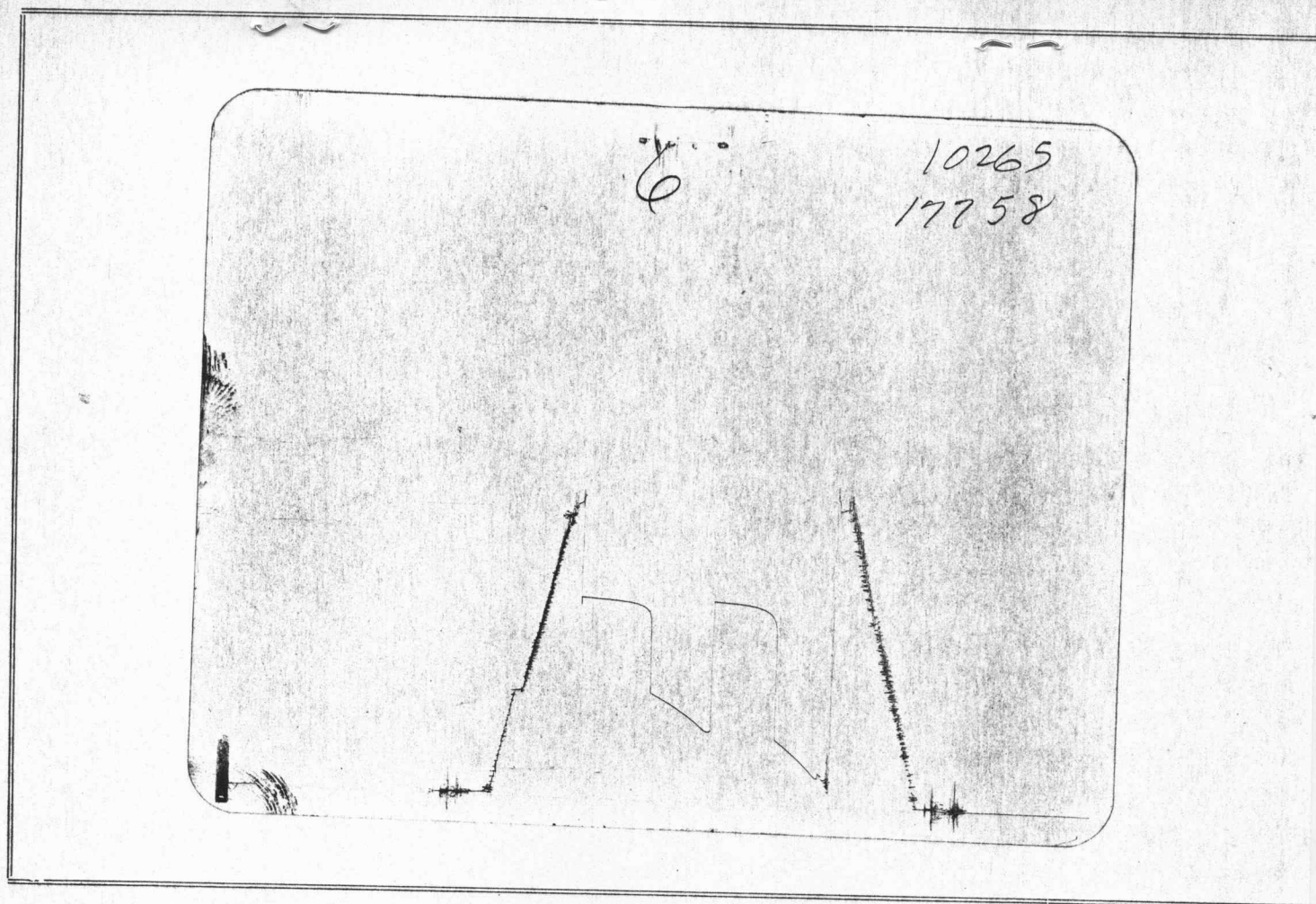
	TIME	PSI
INITIAL HYDRO MUD PRESSURE		2000
INITIAL CLOSED IN PRESSURE	55 MINUTES	1344 ⁸⁸
INITIAL FLOW	45 MINUTES	115 - 438
FINAL FLOW	45 MINUTES	470 - 723
FINAL CLOSED IN PRESSURE	60 MINUTES	1347
FINAL HYDRO MUD PRESSURE		1991

TOTAL DEPTH 3990PACKER DEPTH 3958AK-1 NO. 10265 DEPTH 3985

1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	115		438		470		723
	253		1235		588		1288
	362		1286		660		1307
	438		1305		723		1316
			1319				1324
			1328				1330
			1332				1333
			1337				1336
			1340				1339
			1343				1342
			1345				1345
			1347				1347
			1347				1347
15	MINUTE INTERVAL	5	MINUTE INTERVAL	15	MINUTE INTERVAL	5	MINUTE INTERVAL

REMARKS * INITIAL CIP 55 MINUTES.

SPECIAL PRESSURE DATA



Tool Open: 1st Flow hr. 45 mins: Shut-in Initial hr. 60 min: 2nd Flow hr. 45 min: Shut-in Final hr. 60 min

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>1972</u>	<u>2000</u>
(B) Initial 1st Flow Pressure	<u>115</u>	<u>115</u>
(C) Final 1st Flow Pressure	<u>460</u>	<u>438</u>
(D) Initial Shut-in Pressure	<u>1344</u>	<u>1347</u>
(E) Initial 2nd Flow Pressure	<u>460</u>	<u>470</u>
(F) Final 2nd Flow Pressure	<u>716</u>	<u>723</u>
(G) Final Shut-in Pressure	<u>1344</u>	<u>1347</u>
(H) Final Hydrostatic Pressure	<u>1948</u>	<u>1991</u>

17758

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company MURFIN DRILLING CO.

Lease and Well No. FISHER #1-36

County EDWARDS State KANSAS Date 10-5-78

Formation Test No. 8 Total Depth 4475 Elev. _____

Interval Tested 4429 To 4475 Anchor Length 46'

Size Hole 7 7/8 Size Drill Pipe 4 1/2 F Size Packer 6 3/4

Mud Weight 9.8 Viscosity 44 Water Loss 5.8 c.c. Bottom Hole Temp. 112 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 17759

Length of Drill Collar _____ I. D. _____ Length Flexweight _____ I. D. _____

RECOVERY

FAIR INCREASING BLOW TO STRONG BLOW. SECOND OPENING GAS TO SURFACE
IN 50 MINUTES. MEASURED 1/8" ORIFICE, 1 IN. WATER .528
M.C.F.P.D.

SECOND OPENING: GAUGED THROUGH 1/8" ORIFICE.

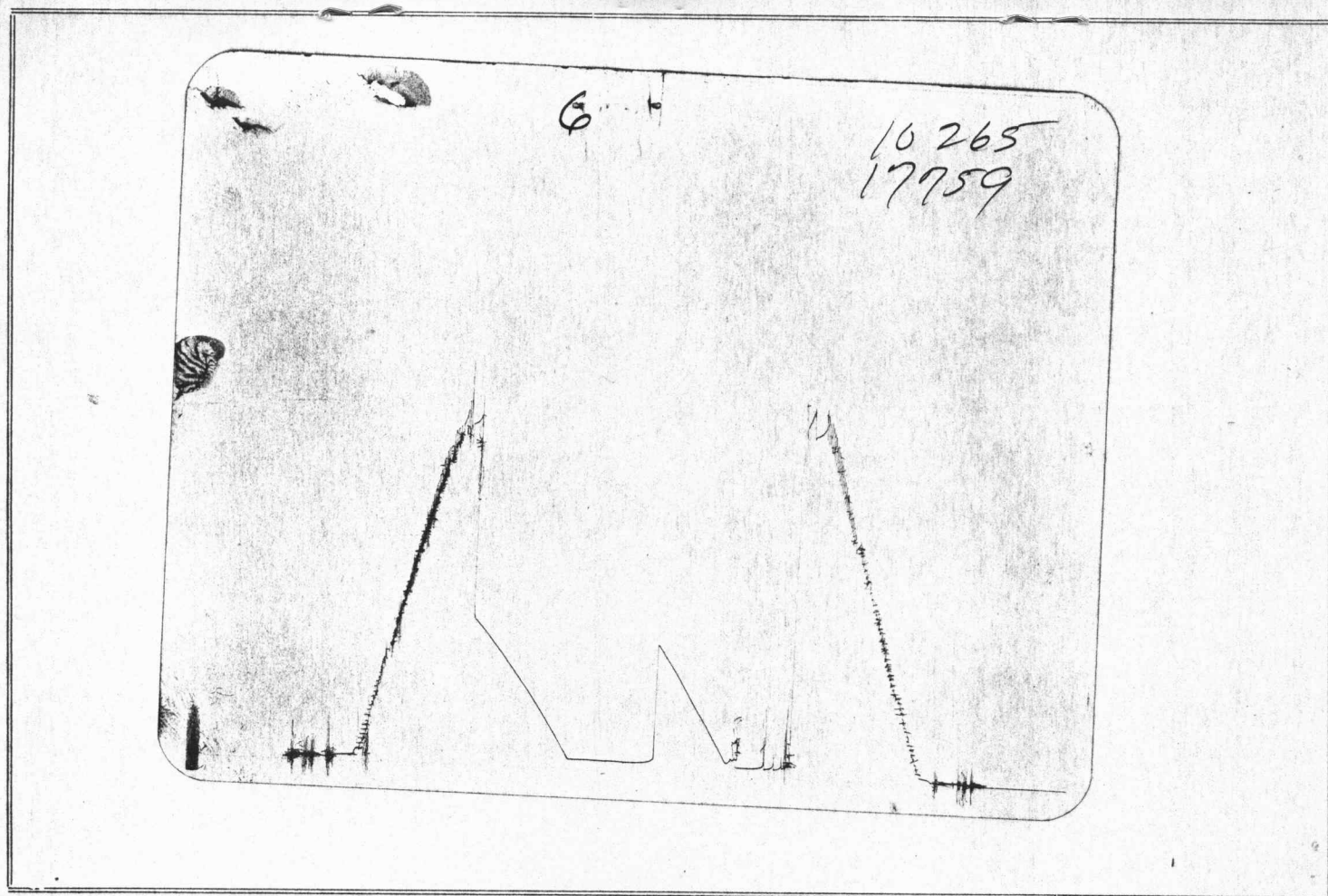
50 MINUTES	.528 M.C.F.P.D.
60 MINUTES	.528 M.C.F.P.D.

6 1/2 FEET OF MUD.

Lease and Well No. FISHER #1

36-25S-17M

Formation Test No. 8



Tool Open: 1st Flow hr. 45 mins: Shut-in Initial hr. 60 min: 2nd Flow hr. 60 min: Shut-in Final hr. 90 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2322</u>	<u>2353</u>
(B) Initial 1st Flow Pressure	<u>69</u>	<u>65</u>
(C) Final 1st Flow Pressure	<u>69</u>	<u>65</u>
(D) Initial Shut-in Pressure	<u>879</u>	<u>847</u>
(E) Initial 2nd Flow Pressure	<u>69</u>	<u>65</u>
(F) Final 2nd Flow Pressure	<u>69</u>	<u>65</u>
(G) Final Shut-in Pressure	<u>948</u>	<u>970</u>
(H) Final Hydrostatic Pressure	<u>2299</u>	<u>2329</u>

17759

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company MURFIN DRILLING CO.

Lease and Well No. FISHER #1-36

County EDWARDS State KANSAS Date 10-5-78

Formation Test No. 9 Total Depth 4495 Elev. _____

Interval Tested 4479 To 4495 Anchor Length 16'

Size Hole 7 7/8 Size Drill Pipe 4 1/2 F Size Packer 6 3/4

Mud Weight 9.8 Viscosity 45 Water Loss 5.8 c.c. Bottom Hole Temp. 112 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 17760

Length of Drill Collar _____ I. D. _____ Length Flexweight _____ I. D. _____

RECOVERY

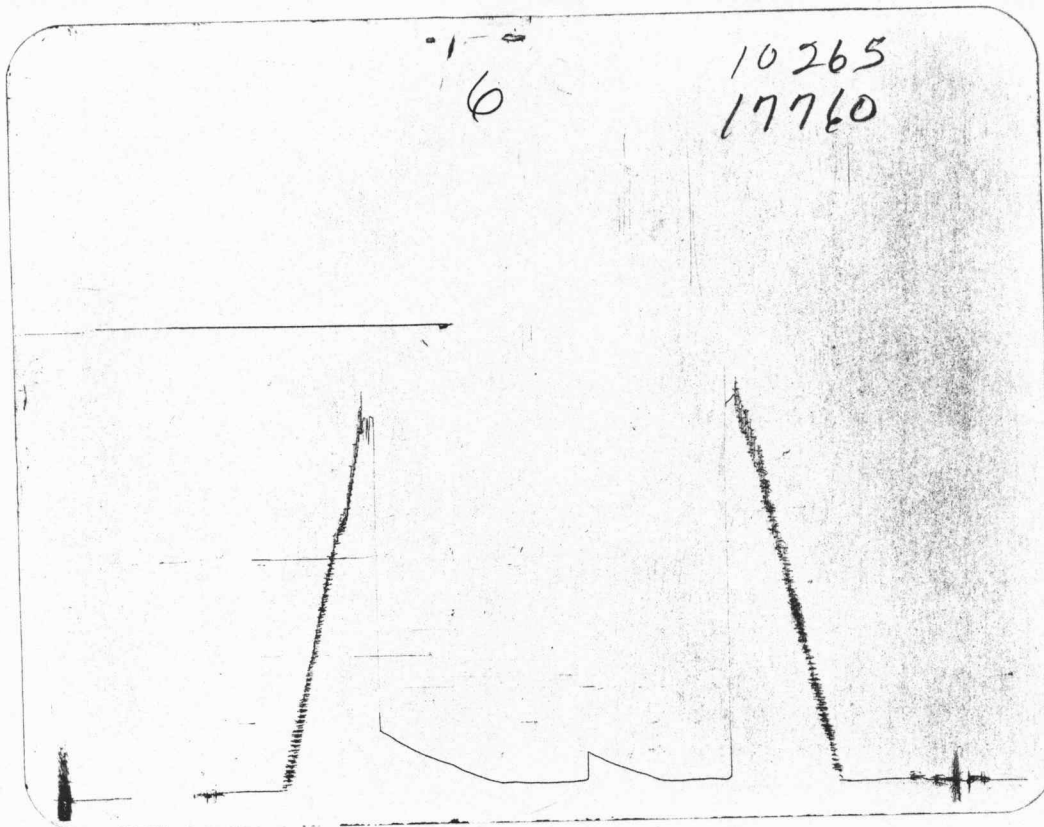
FIRST OPENING GOOD DECREASING BLOW TO FAIR BLOW ON
SECOND OPENING.

30 FEET OF OIL SPECKED MUD. OIL ON TOP OF TOOL.

Lease and Well No. FISHER #1

36-25S-17W

Formation Test No. 9



Tool Open: 1st Flow 45 hr. 45 mins: Shut-in Initial 60 min: 2nd Flow 60 hr. 60 min: Shut-in Final 90 mi

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2322</u>	<u>2364</u>
(B) Initial 1st Flow Pressure	<u>46</u>	<u>46</u>
(C) Final 1st Flow Pressure	<u>46</u>	<u>46</u>
(D) Initial Shut-in Pressure	<u>230</u>	<u>228</u>
(E) Initial 2nd Flow Pressure	<u>46</u>	<u>53</u>
(F) Final 2nd Flow Pressure	<u>46</u>	<u>53</u>
(G) Final Shut-in Pressure	<u>345</u>	<u>382</u>
(H) Final Hydrostatic Pressure	<u>2299</u>	<u>2287</u>

17760

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company MURFIN DRILLING CO.

Lease and Well No. FISHER #1

County EDWARDS

State KANSAS

Date OCTOBER 7, 1978

Formation Test No.	<u>10</u>	Total Depth	<u>4588</u>	Elev.	<u>BELOW 62'</u>
Interval Tested	<u>4478</u>	To	<u>4524</u>	Anchor Length	<u>BETWEEN 46'</u>
Size Hole	<u>7 7/8</u>	Size Drill Pipe	<u>4 1/2 F.H.</u>	Size Packer	<u>6 3/4</u>
Mud Weight	<u>9.7</u>	Viscosity	<u>46</u>	Water Loss	<u>5.2 c.c.</u>
Chokes: Top	<u>1/2</u>	Bottom	<u>1/2</u>	Bottom Hole Temp. <u>°F</u>	
Ticket No. <u>17672</u>					
Length of Drill Collar	<u>I. D.</u>	Length Flexweight	<u>I. D.</u>		

RECOVERY

FAIR BLOW

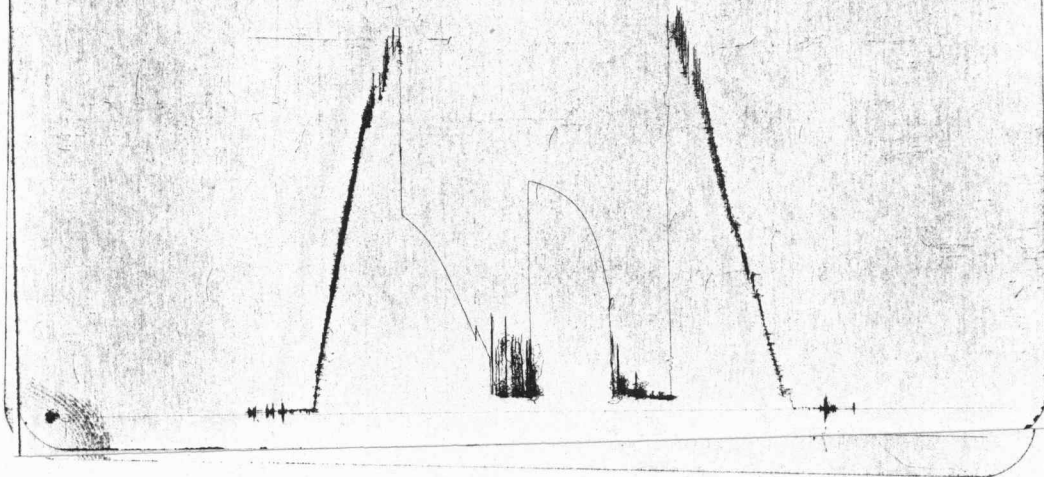
95 FEET OF DRILLING MUD.

CHARTS INDICATE PARTIAL PLUGGING.

Lease and Well No. FISHER # 1 36-25S-17W

Formation Test No. 10

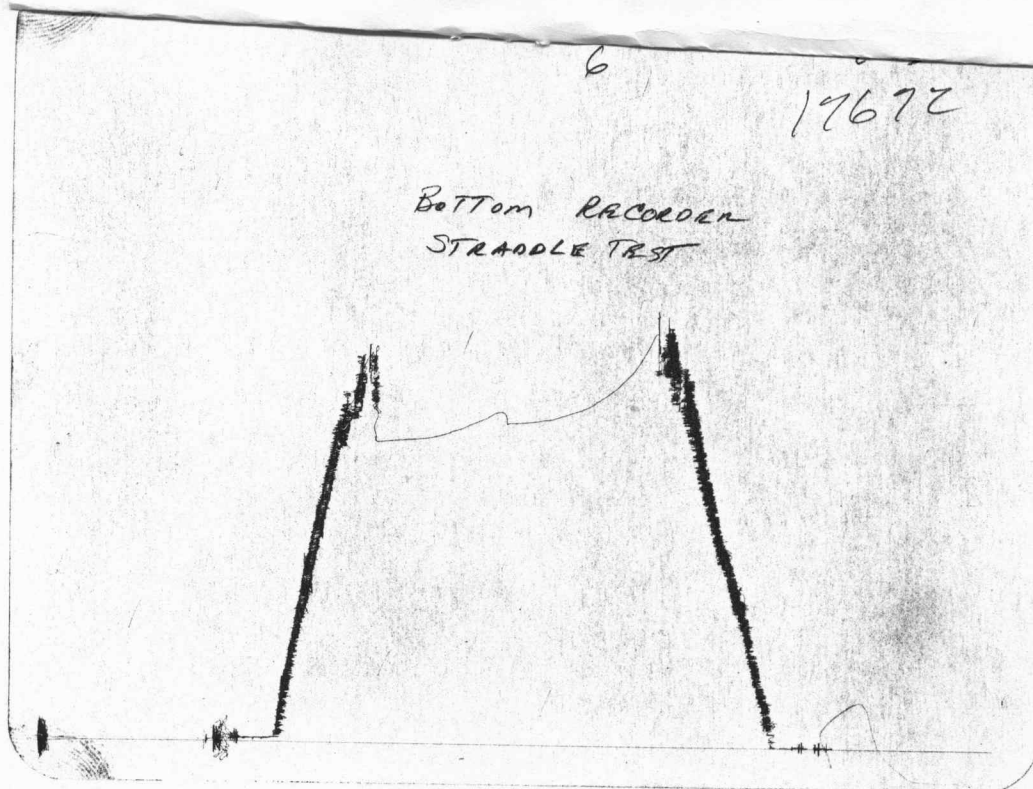
INSIDE RECORDER
STRADDLE TEST



Tool Open: 1st Flow hr. 45mins: Shut-in Initial hr. 60 min: 2nd Flow hr. 45 min: Shut-in Final hr. 60 min

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2351</u>	<u>2305</u>
(B) Initial 1st Flow Pressure	<u>74</u>	<u>62</u>
(C) Final 1st Flow Pressure	<u>111</u>	<u>84</u>
(D) Initial Shut-in Pressure	<u>1443</u>	<u>1441</u>
(E) Initial 2nd Flow Pressure	<u>111</u>	<u>84</u>
(F) Final 2nd Flow Pressure	<u>111</u>	<u>107</u>
(G) Final Shut-in Pressure	<u>1244</u>	<u>1242</u>
(H) Final Hydrostatic Pressure	<u>2340</u>	<u>2259</u>

17672



Tool Open: 1st Flow hr. 45 mins: Shut-in Initial hr. 60 min: 2nd Flow hr. 45 min: Shut-in Final hr. 60 min

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2351</u>	<u>2305</u>
(B) Initial 1st Flow Pressure	<u>74</u>	<u>62</u>
(C) Final 1st Flow Pressure	<u>111</u>	<u>84</u>
(D) Initial Shut-in Pressure	<u>1443</u>	<u>1441</u>
(E) Initial 2nd Flow Pressure	<u>111</u>	<u>84</u>
(F) Final 2nd Flow Pressure	<u>111</u>	<u>107</u>
(G) Final Shut-in Pressure	<u>1244</u>	<u>1242</u>
(H) Final Hydrostatic Pressure	<u>2340</u>	<u>2259</u>

17672