Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Messman-Rinehart Oil Co. Lease & Well No. Beers Estate #1

Elevation 2555 Kelly Bushings Formation Tarkio Effective Pay Ft. Ticket No. 14207

Date 2-11-70 Sec. 23 Twp. 4S Range 27W County Decatur State Kansas

Test Approved by J.G. Klein Western Representative W.C. Craig

Formation Test No. 1 O.K. X Misrun Interval Tested From 3168' to 3203' Total Depth 3203'

Size Main Hole 7 7/8 Rat Hole Conv. B.T. X Damaged Yes X No Conv. X B.T. Damaged X Yes No

Top Packer Depth 3163 Ft. Size 6 3/4" Packer Depth 3168 Ft. Size 6 3/4"

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" Anchor Length 35 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3197 Ft. Clock No. 6892 Depth 3200 Ft. Clock No. 9102

Top Make Kuster Cap. 4100 No. 2607 Inside Outside Bottom Make Kuster Cap. 4100 No. 1561 Inside Outside

Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer M

Tool Open I.F.P. From 5:35 M. to 5:50 M. Hr. 15 Min. From (B) 30 P.S.I. To (C) 30 P.S.I.

Tool Closed I.C.I.P. From 5:50 M. to 6:20 M. Hr. 30 Min. (D) 997 P.S.I.

Tool Open F.F.P. From 6:20 M. to 8:20 M. Hr. 120 Min. From (E) 31 P.S.I. To (F) 42 P.S.I.

Tool Closed F.C.I.P. From 8:20 M. to 9:05 M. Hr. 45 Min. (G) 740 P.S.I.

Initial Hydrostatic Pressure (A) 1704 P.S.I. Final Hydrostatic Pressure (H) 1674 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	3/8 In.		M.	
			M.	
			M.	

BLOW Weak increasing to fair Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 45 feet heavy oil cut mud

Reversed Out Yes X No Mud Type Chem Viscosity 46 Weight 9.9 Water Loss 9.1 cc. Maximum Temp. 108 °F

Type Circ. Sub. Plug Did Tool Plug? No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where?

Length Drill Pipe 3148 I.D. Drill Pipe 3.8 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 55 ft.

Remarks

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 2-11-70 Test Ticket No. 14207

Recorder No. 2607 Capacity 4100 Location 3197 Ft.

Clock No. 6892 Elevation 2555 Kelly Bushings Well Temperature 108 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1704 P.S.I.	Open Tool	M	
B First Initial Flow Pressure	30 P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C First Final Flow Pressure	30 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	997 P.S.I.	Second Flow Pressure	120 Mins.	120 Mins.
E Second Initial Flow Pressure	31 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	42 P.S.I.			
G Final Closed-in Pressure	740 P.S.I.			
H Final Hydrostatic Mud	1674 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of ____ Min.

Point Mins.	Press.
P 1 0	30
P 2 5	30
P 3 10	30
P 4 15	30
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: 9 Inc. of 3 mins. and a final inc. of 1 Min.

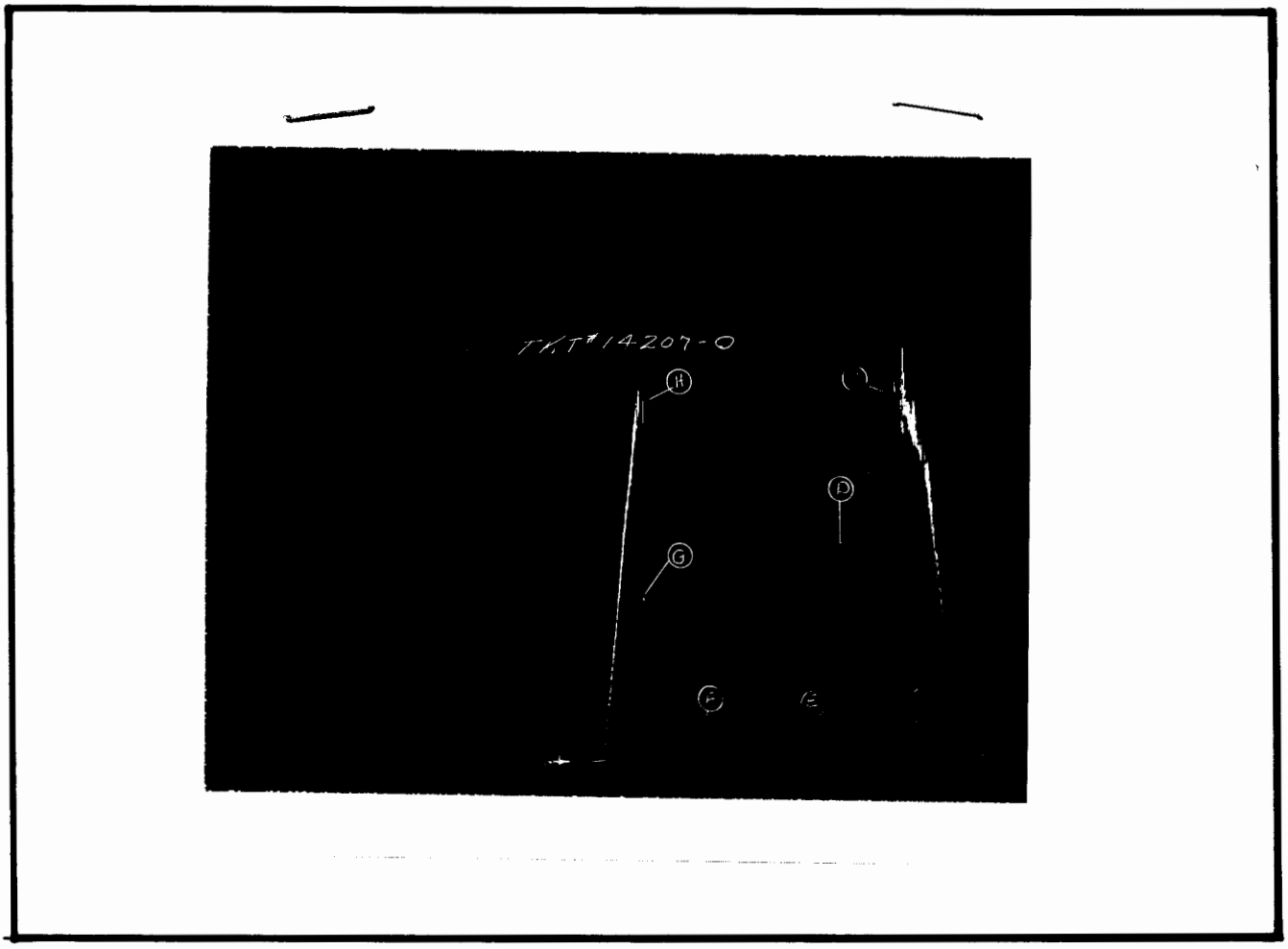
Point Minutes	Press.
0	30
3	93
6	427
9	699
12	841
15	899
18	939
21	966
24	984
27	990
28	997

Second Flow Pressure
Breakdown: 24 Inc. of 5 mins. and a final inc. of ____ Min.

Point Minutes	Press.
0	31
5	31
10	31
15	31
20	31
25	31
30	31
35	33
40	33
45	34
50	34
55	35
60	35
65	35
~~70~~	~~36~~
75	36
80	37
~~85~~	~~38~~
90	40
95	40
~~100~~	~~40~~
105	40
110	40
~~115~~	~~41~~
120	42

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

Point Minutes	Press.
0	42
3	43
6	50
9	59
12	73
15	88
18	110
21	145
24	198
27	254
30	381
33	466
36	592
39	652
~~42~~	~~699~~
45	740



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1745	1704	PSI
(B)	First Initial Flow Pressure	31	30	PSI
(C)	First Final Flow Pressure	31	30	PSI
(D)	Initial Closed-in Pressure	997	997	PSI
(E)	Second Initial Flow Pressure	31	31	PSI
(F)	Second Final Flow Pressure	42	42	PSI
(G)	Final Closed-in Pressure	737	740	PSI
(H)	Final Hydrostatic Mud	1720	1674	PSI

COMPANY Messman-Rinehart Oil Co. LEASE AND WELL NO. Beers Estate #1 SEC. 23 TWP. 4S RGE. 27W TEST NO. 1 DATE 2-11

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 (316) 793-7903

Company Messman & Rinehart Oil Co. Lease & Well No. Beers Estate #1

Elevation 2555 Kelly Bushings Formation Howard Effective Pay Ft. Ticket No. 14208

Date 2-12-70 Sec. 23 Twp. 4S Range 27W County Decatur State Kansas

Test Approved by J. G. Klein Western Representative W. C. Craig

Formation Test No. 2 O.K. X Misrun Interval Tested From 3234' to 3249' Total Depth 3249'

Size Main Hole 7 7/8 Rat Hole Conv. B.T. X Damaged Yes X No Conv. X B.T. Damaged Yes X No

Top Packer Depth 3229 Ft. Size 6 3/4" Packer Depth 3234 Ft. Size 6 3/4"

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 15 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3243 Ft. Clock No. 6892 Depth 3246 Ft. Clock No. 9102

Top Make Kuster Cap. 4100 No. 2607 Inside Outside Bottom Make Kuster Cap. 4100 No. 1561 Inside Outside

Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer 7:57 A.M

Tool Open I.F.P. From 8:00 M. to 8:15A. M. Hr. 15 Min. From (B) 28 P.S.I. To (C) 31 P.S.I.

Tool Closed I.C.I.P. From 8:15 M. to 8:45A. M. Hr. 30 Min. (D) 990 P.S.I.

Tool Open F.F.P. From 8:45 M. to 9:45A. M. Hr. 60 Min. From (E) 40 P.S.I. To (F) 73 P.S.I.

Tool Closed F.C.I.P. From 9:45 M. to 10:30A. M. Hr. 45 Min. (G) 972 P.S.I.

Initial Hydrostatic Pressure (A) 1672 P.S.I. Final Hydrostatic Pressure (H) 1662 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	3/8 In.		M.	
			M.	
			M.	

BLOW Weak increasing to strong Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 240 feet gas in pipe - 45 feet free oil

60 feet heavy oil cut mud - 30 feet muddy salt water

Reversed Out Yes X No Mud Type Chem. Viscosity 44 Weight 9.9 Water Loss 9.1 cc. Maximum Temp. 108 °F

Type Circ. Sub. Plug Did Tool Plug? No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where?

Length Drill Pipe 3214 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 35 ft.

Remarks

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 2-12-70 Test Ticket No. 14208

Recorder No. 2607 Capacity 4100 Location 3243 Ft.

Clock No. 6892 Elevation 2555 Kelly Bushings Well Temperature 108 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1672 P.S.I.	Open Tool	7:57 A. M	
B First Initial Flow Pressure	28 P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C First Final Flow Pressure	31 P.S.I.	Initial Closed-in Pressure	30 Mins.	28 Mins.
D Initial Closed-in Pressure	990 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	40 P.S.I.	Final Closed-in Pressure	45 Mins.	43 Mins.
F Second Final Flow Pressure	73 P.S.I.			
G Final Closed-in Pressure	972 P.S.I.			
H Final Hydrostatic Mud	1662 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of ____ Min.

Point Mins.	Press.
P 1 0	28
P 2 5	29
P 3 10	30
P 4 15	31
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: 9 Inc. of 3 mins. and a final inc. of 1 Min.

Point Minutes	Press.
0	31
3	186
6	795
9	908
12	941
15	960
18	966
21	978
24	984
27	987
28	990

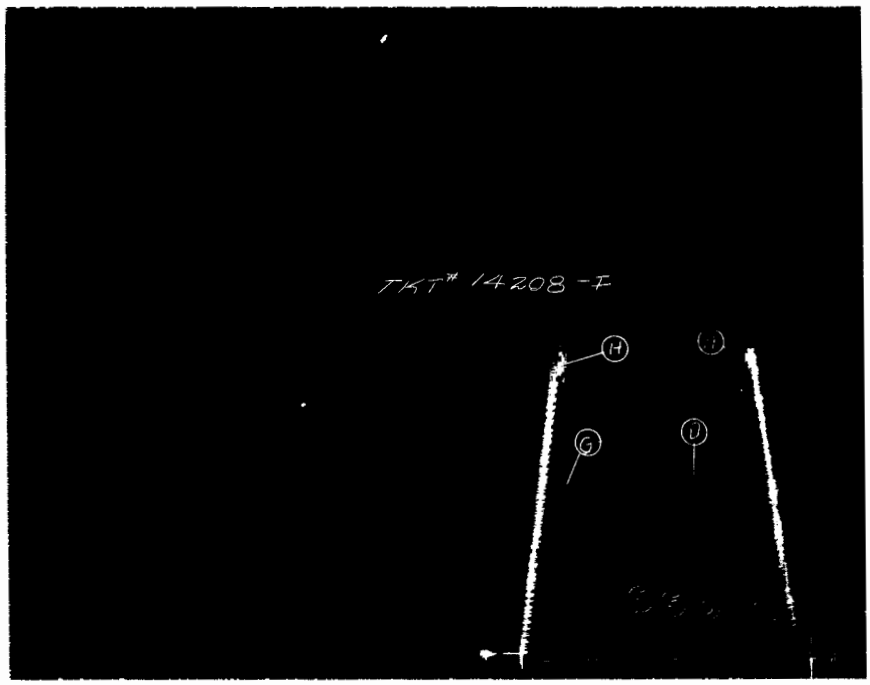
Second Flow Pressure
Breakdown: 12 Inc. of 5 mins. and a final inc. of ____ Min.

Point Minutes	Press.
0	40
5	40
10	45
15	49
20	52
25	54
30	57
35	60
40	63
45	65
50	67
55	70
60	73

Final Shut-In
Breakdown: 14 Inc. of 3 mins. and a final inc. of 1 Min.

Point Minutes	Press.
0	73
3	330
6	746
9	846
12	894
15	916
18	928
21	939
24	943
27	951
30	958
33	961
36	964
39	967
42	970
43	972

COMPANY Messman & Rinehart Oil Co. LEASE AND WELL NO. Beers Estate #1 SEC. 23 TWP. 4S RGE. 27W TEST NO. 2 DATE 2-12-70



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1701	1672	PSI
(B)	First Initial Flow Pressure	31	28	PSI
(C)	First Final Flow Pressure	35	31	PSI
(D)	Initial Closed-in Pressure	997	990	PSI
(E)	Second Initial Flow Pressure	42	40	PSI
(F)	Second Final Flow Pressure	73	73	PSI
(G)	Final Closed-in Pressure	977	972	PSI
(H)	Final Hydrostatic Mud	1689	1662	PSI

WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Messman-Rinehart Oil Co. Lease & Well No. Beers Estate #1

Elevation 2555 Kelly Bushings Formation Kansas City Effective Pay Ft. Ticket No. 14209

Date 2-13-70 Sec. 23 Twp. 4S Range 27W County Decatur State Kansas

Test Approved by J. G. Klein Western Representative W.C. Craig

Formation Test No. 3 O.K. X Misrun Interval Tested From 3466' to 3508' Total Depth 3508'

Size Main Hole 7 7/8 Rat Hole Conv. B.T. X Damaged Yes X No Conv. X B.T. Damaged Yes X No

Top Packer Depth 3461 Ft. Size 6 3/4" Packer Depth 3466 Ft. Size 6 3/4"

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 42 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3502 Ft. Clock No. 6892 Depth 3505 Ft. Clock No. 9102

Top Make Kuster Cap. 4100 No. 2607 Inside Outside Bottom Make Kuster Cap. 4100 No. 1561 Inside Outside

Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer 1:02 P.M.

Tool Open I.F.P. From 1:05 M. to 1:20P. M. Hr. 15 Min. From (B) 158 P.S.I. To (C) 332 P.S.I.

Tool Closed I.C.I.P. From 1:20 M. to 1:50P. M. Hr. 30 Min. (D) 1054 P.S.I.

Tool Open F.F.P. From 1:50 M. to 2:50 M. Hr. 60 Min. From (E) 389 P.S.I. To (F) 766 P.S.I.

Tool Closed F.C.I.P. From 2:50 M. to 3:35P. M. Hr. 45 Min. (G) 1012 P.S.I.

Initial Hydrostatic Pressure (A) 1890 P.S.I. Final Hydrostatic Pressure (H) 1868 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	3/8 In.		M.	
			M.	
			M.	

BLOW Strong thru out test Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 185 feet thin mud

1440 feet muddy salt water

Reversed Out X Yes No Mud Type Chem. Viscosity 42 Weight 10 Water Loss 9.2 cc. Maximum Temp. 112 °F

Type Circ. Sub. Plug Did Tool Plug? No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where?

Length Drill Pipe 3446 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 62 ft.

Remarks Slid tool 10 feet to bottom

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 2-13-70 Test Ticket No. 14209

Recorder No. 2607 Capacity 4100 Location 3502 Ft.

Clock No. 6892 Elevation 2555 Kelly Bushings Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1890 P.S.I.	Open Tool	1:02 P.M	
B First Initial Flow Pressure	158 P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C First Final Flow Pressure	332 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1054 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	389 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	766 P.S.I.			
G Final Closed-in Pressure	1012 P.S.I.			
H Final Hydrostatic Mud	1868 P.S.I.			

PRESSURE BREAKDOWN

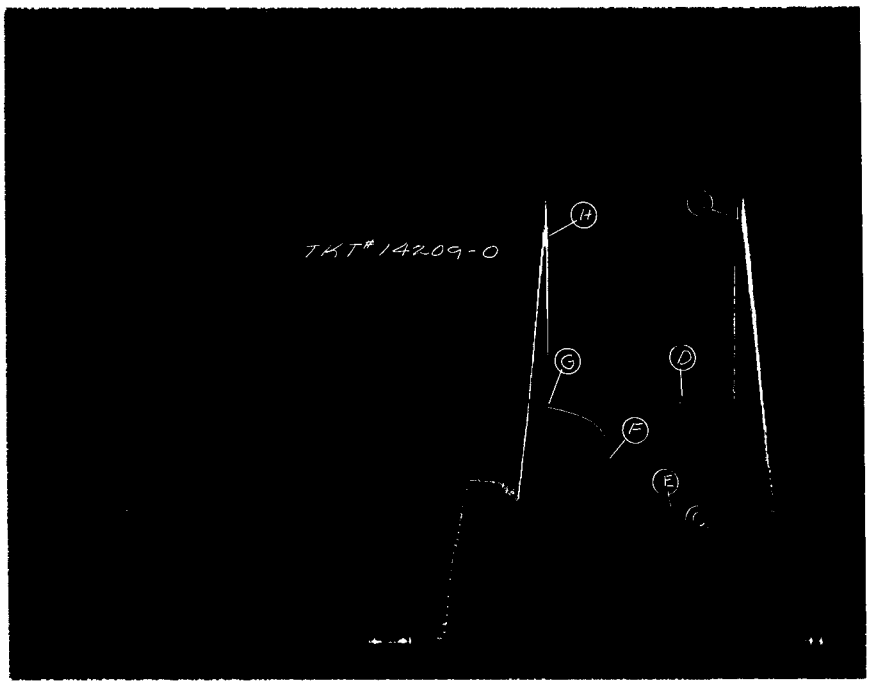
First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of ____ Min.

Initial Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of ____ Min.

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

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	158	0	332	0	389	0	766
P 2 5	228	3	855	5	410	3	881
P 3 10	292	6	931	10	472	6	911
P 4 15	332	9	962	15	518	9	931
P 5		12	988	20	564	12	948
P 6		15	1008	25	601	15	954
P 7		18	1020	30	631	18	962
P 8		21	1034	35	650	21	971
P 9		24	1039	40	664	24	976
P10		27	1049	45	690	27	983
P11		30	1054	50	735	30	989
P12				55	752	33	996
P13				60	766	36	1003
P14						39	1006
P15						42	1008
P16						45	1012
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1899	1890	PSI
(B)	First Initial Flow Pressure	158	158	PSI
(C)	First Final Flow Pressure	338	332	PSI
(D)	Initial Closed-in Pressure	1050	1054	PSI
(E)	Second Initial Flow Pressure	391	389	PSI
(F)	Second Final Flow Pressure	788	766	PSI
(G)	Final Closed-in Pressure	1018	1012	PSI
(H)	Final Hydrostatic Mud	1875	1868	PSI

COMPANY _____ LEASE AND WELL NO. _____ SEC. _____ T

WESTERN

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Messman-Rinehart Oil Co. Lease & Well No. Beers Estate #1

Elevation 2555 Kelly Bushings Formation Kansas City Effective Pay Ft. Ticket No. 14210

Date 2-14-70 Sec. 23 Twp. 4S Range 27W County Decatur State Kansas

Test Approved by J. G. Klein Western Representative W. C. Craig

Formation Test No. 4 O.K. X Misrun Interval Tested From 3514' to 3546' Total Depth 3546'

Size Main Hole 7 7/8 Rat Hole Conv. B.T. X Damaged Yes No Conv. X B.T. Damaged Yes X No

Top Packer Depth 3514 Ft. Size 6 3/4" Packer Depth Ft. Size

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 32 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3540 Ft. Clock No. 6892 Depth 3543 Ft. Clock No. 9102

Top Make Kuster Cap. 4100 No. 2607 Inside Outside Bottom Make Kuster Cap. 4100 No. 1561 Inside Outside

Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer 5:07 A.M.

Tool Open I.F.P. From 5:10 M. to 5:25 A.M. Hr. 15 Min. From (B) 33 P.S.I. To (C) 33 P.S.I.

Tool Closed I.C.I.P. From 5:25 M. to 5:55A. M. Hr. 30 Min. (D) 114 P.S.I.

Tool Open F.F.P. From 5:55 M. to 7:55A. M. Hr. 120 Min. From (E) 42 P.S.I. To (F) 42 P.S.I.

Tool Closed F.C.I.P. From 7:55 M. to 8:40A. M. Hr. 45 Min. (G) 122 P.S.I.

Initial Hydrostatic Pressure (A) 1928 P.S.I. Final Hydrostatic Pressure (H) 1910 P.S.I.

SURFACE INFORMATION	Size Choke 3/8 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Weak increasing to fair Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 120 feet gas in pipe

20 feet very heavy oil cut mud

25 feet heavy oil cut mud

Reversed Out Yes X No Mud Type Chem. Viscosity 46 Weight 10 Water Loss 7.9 cc. Maximum Temp. 102 °F

Type Circ. Sub. Plug Did Tool Plug? No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers No Safety Joint No Did Packer Hold? Yes Where?

Length Drill Pipe 3499 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 47 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 2-14-70 Test Ticket No. 14210

Recorder No. 2607 Capacity 4100 Location 3540 Ft.

Clock No. 6892 Elevation 2555 Kelly Bushings Well Temperature 102 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1928 P.S.I.	Open Tool	5:07 AM	
B First Initial Flow Pressure	33 P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C First Final Flow Pressure	33 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	114 P.S.I.	Second Flow Pressure	120 Mins.	120 Mins.
E Second Initial Flow Pressure	42 P.S.I.	Final Closed-in Pressure	45 Mins.	44 Mins.
F Second Final Flow Pressure	42 P.S.I.			
G Final Closed-in Pressure	122 P.S.I.			
H Final Hydrostatic Mud	1910 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of ____ Min.

Point Mins.	Press.
P 1 0	33
P 2 5	33
P 3 10	33
P 4 15	33
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: 10 Inc. of 3 mins. and a final inc. of ____ Min.

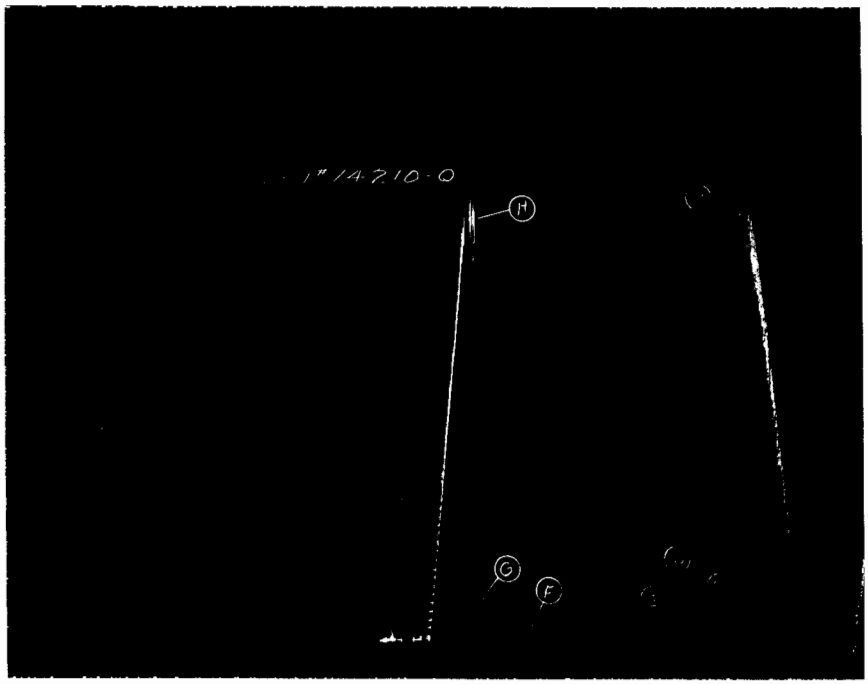
Point Minutes	Press.
0	33
3	35
6	37
9	42
12	48
15	52
18	63
21	74
24	82
27	97
30	114

Second Flow Pressure
Breakdown: 24 Inc. of 5 mins. and a final inc. of ____ Min.

Point Minutes	Press.
0	40
5	40
10	40
15	40
20	40
25	40
30	40
35	40
40	40
45	40
50	40
55	40
60	41
65	41
70	41
75	41
80	41
85	41
90	41
95	41
100	41
105	42
110	42
115	42
120	42

Final Shut-In
Breakdown: 14 Inc. of 3 mins. and a final inc. of 2 Min.

Point Minutes	Press.
0	42
3	44
6	48
9	50
12	56
15	61
18	65
21	71
24	78
27	82
30	90
33	96
36	104
39	109
42	114
44	122



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1932	1928	PSI
(B)	First Initial Flow Pressure	31	33	PSI
(C)	First Final Flow Pressure	31	33	PSI
(D)	Initial Closed-in Pressure	116	114	PSI
(E)	Second Initial Flow Pressure	40	42	PSI
(F)	Second Final Flow Pressure	42	42	PSI
(G)	Final Closed-in Pressure	126	122	PSI
(H)	Final Hydrostatic Mud	1920	1910	PSI

COMPANY Messman-Rinehart Oil Co. LEASE AND WELL NO. Beers Estate #1 SEC. 23 TWP. 4S RGE. 27W TEST NO. 4 DATE 2-14-

WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Messman & Rinehart Oil Co. Lease & Well No. Beers Estate #1

Elevation 2555 Kelly Bushings Formation Kansas City Effective Pay _____ Ft. Ticket No. 14211

Date 2-14-70 Sec. 23 Twp. 4S Range 27W County Decatur State Kansas

Test Approved by J. G. Klein Western Representative W.C. Craig

Formation Test No. 5 O.K. X Misrun _____ Interval Tested From 3549' to 3559' Total Depth 3559'

Size Main Hole 7 7/8 Rat Hole _____ Conv. _____ B.T. X Damaged _____ Yes X No Conv. X B.T. _____ Damaged _____ Yes X No

Top Packer Depth 3544 Ft. Size 6 3/4" Packer Depth 3549 Ft. Size 6 3/4"

Straddle _____ Yes _____ No X Conv. _____ B.T. _____ Damaged _____ Yes _____ No

Packer Depth _____ Ft. Size _____

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 10 Ft. Size 5 1/2" O.D.

RECORDERS Depth AP. 3534 Ft. Clock No. 6892 Depth 3556 Ft. Clock No. 9102

Top Make Kuster Cap. 4100 No. 2607 Inside Outside Bottom Make Kuster Cap. 4100 No. 1561 Inside Outside

Below Straddle: Depth _____ Clock No. _____ Inside Outside Depth _____ Ft. Clock No. _____ Inside Outside

Top Make _____ Cap. _____ No. _____ Inside Outside Bottom Make _____ Cap. _____ No. _____ Inside Outside

Time Set Packer _____ M

Tool Open I.F.P. From 5:00 M. to 5:15 M. Hr. 15 Min. From (B) 86 P.S.I. To (C) 145 P.S.I.

Tool Closed I.C.I.P. From 5:15 M. to 5:45 M. Hr. 30 Min. (D) 998 P.S.I.

Tool Open F.F.P. From 5:45 M. to 6:45 M. Hr. 60 Min. From (E) 173 P.S.I. To (F) 430 P.S.I.

Tool Closed F.C.I.P. From 6:45 M. to 7:30 M. Hr. 45 Min. (G) 992 P.S.I.

Initial Hydrostatic Pressure (A) 1831 P.S.I. Final Hydrostatic Pressure (H) 1821 P.S.I.

SURFACE INFORMATION	Size Choke 3/8 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Strong thru out test Bottom Choke Size 3/4 In.

Did Well Flow _____ Yes X No Recovery Total Ft. 200 feet drilling mud - 300 feet thin mud

600 feet muddy salt water

Reversed Out _____ Yes _____ No Mud Type Chem Viscosity 40 Weight 9.9 Water Loss 10.7 cc. Maximum Temp. 106 °F

Type Circ. Sub. Plug Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____

Length Drill Pipe 3524 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D.S.T. Tool 35 ft.

Remarks Slid tool 5 feet to bottom

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 2-14-70 Test Ticket No. 14211

Recorder No. 2607 Capacity 4100 Location 3534 Ft.

Clock No. 6892 Elevation 2555 Kelly Bushings Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1831 P.S.I.	Open Tool	M	
B First Initial Flow Pressure	66 P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C First Final Flow Pressure	145 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	998 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	173 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	430 P.S.I.			
G Final Closed-in Pressure	992 P.S.I.			
H Final Hydrostatic Mud	1821 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc.
of 5 mins. and a
final inc. of ____ Min.

Point Mins.	Press.
P 1 0	86
P 2 5	86
P 3 10	105
P 4 15	145
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: 10 Inc.
of 3 mins. and a
final inc. of ____ Min.

Point Minutes	Press.
0	105
3	912
6	951
9	973
12	985
15	989
18	991
21	994
24	995
27	997
30	998

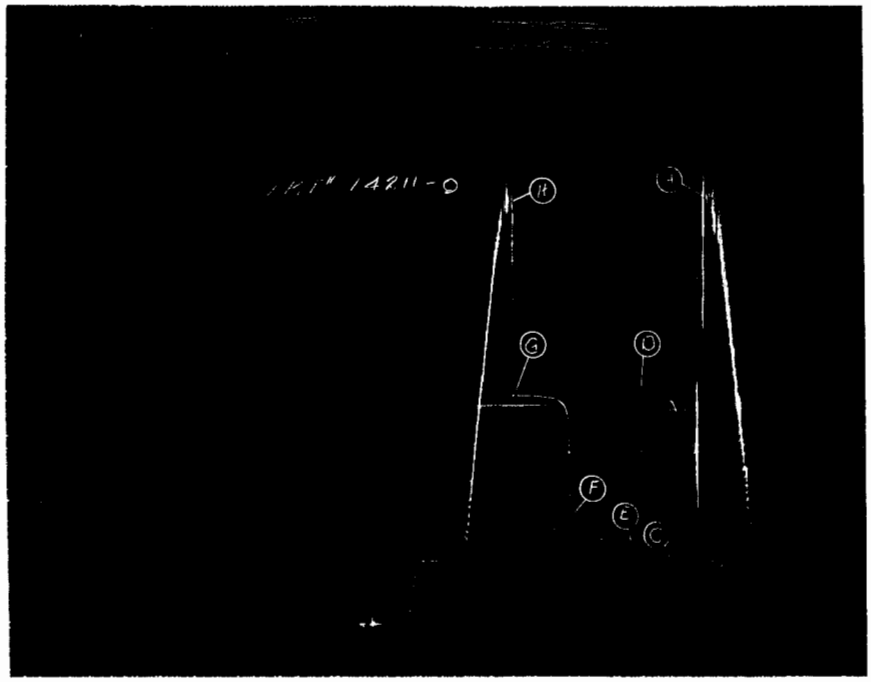
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of ____ Min.

Point Minutes	Press.
0	173
5	176
10	196
15	222
20	250
25	276
30	300
35	324
40	349
45	361
50	392
55	418
60	430

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

Point Minutes	Press.
0	430
3	924
6	957
9	970
12	976
15	981
18	983
21	985
24	987
27	989
30	990
33	990
36	990
39	990
42	991
45	992

COMPANY Messman & Rinehart Oil Co. LEASE AND WELL NO. Beers Estate #1 SEC. 23 T 15 S 27W 5 2



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1882	1831	PSI
(B)	First Initial Flow Pressure	84	86	PSI
(C)	First Final Flow Pressure	148	145	PSI
(D)	Initial Closed-in Pressure	997	998	PSI
(E)	Second Initial Flow Pressure	169	173	PSI
(F)	Second Final Flow Pressure	434	430	PSI
(G)	Final Closed-in Pressure	987	992	PSI
(H)	Final Hydrostatic Mud	1857	1821	PSI

16772

WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Messman & Rinehart Oil Co. Lease & Well No. Beers Estate #1

Elevation 2555 Kelly Bushings Formation Kansas City Effective Pay Ft. Ticket No. 14212

Date 2-15-70 Sec. 23 Twp. 4 Range 27 County Decatur State Kansas

Test Approved by J. G. Klein Western Representative Harold Schmidt

Formation Test No. 6 O.K. X Misrun Interval Tested From 3570' to 3676' Total Depth 3676'

Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. X B.T. Damaged Yes No

Packer Depth Ft. Size Packer Depth 3570 Ft. Size 6 3/4"

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 106 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3574 Ft. Clock No. 6892 Depth 3577 Ft. Clock No. 9102

Top Make Kuster Cap. 4100 No. 2607 Inside Outside Bottom Make Kuster Cap. 4100 No. 1561 Inside Outside

Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer 4:35 P.M.

Tool Open I.F.P. From 4:38 M. to 4:53P.M. Hr. 15 Min. From (B) 49 P.S.I. To (C) 169 P.S.I.

Tool Closed I.C.I.P. From 4:53 M. to 5:23P.M. Hr. 30 Min. (D) 1159 P.S.I.

Tool Open F.F.P. From 5:23 M. to 6:53P.M. Hr. 90 Min. From (E) 194 P.S.I. To (F) 595 P.S.I.

Tool Closed F.C.I.P. From 6:53 M. to 7:38P.M. Hr. 45 Min. (G) 1104 P.S.I.

Initial Hydrostatic Pressure (A) 1872 P.S.I. Final Hydrostatic Pressure (H) 1857 P.S.I.

SURFACE INFORMATION	Size Choke 3/8 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Good thru out Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 300 feet drilling mud - 1000' salt water

Reversed Out X Yes No Mud Type Chem. Viscosity 40 Weight 9.9 Water Loss 10.1 cc. Maximum Temp. 110 °F

Type Circ. Sub Plug Did Tool Plug? No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers -- Safety Joint -- Did Packer Hold? Yes Where? 3570

Length Drill Pipe 3641 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 121 ft.

Remarks

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 2-15-70 Test Ticket No. 14212

Recorder No. 2607 Capacity 4100 Location 3574 Ft.

Clock No. 6892 Elevation 2555 Kelly Bushings Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1872 P.S.I.	Open Tool	4:35 P. M	
B First Initial Flow Pressure	49 P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C First Final Flow Pressure	169 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1159 P.S.I.	Second Flow Pressure	90 Mins.	88 Mins.
E Second Initial Flow Pressure	194 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	595 P.S.I.			
G Final Closed-in Pressure	1104 P.S.I.			
H Final Hydrostatic Mud	1857 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc.
of 5 mins. and a
final inc. of ____ Min.

Point Mins.	Press.
P 1 0	49
P 2 5	81
P 3 10	124
P 4 15	169
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: 10 Inc.
of 3 mins. and a
final inc. of ____ Min.

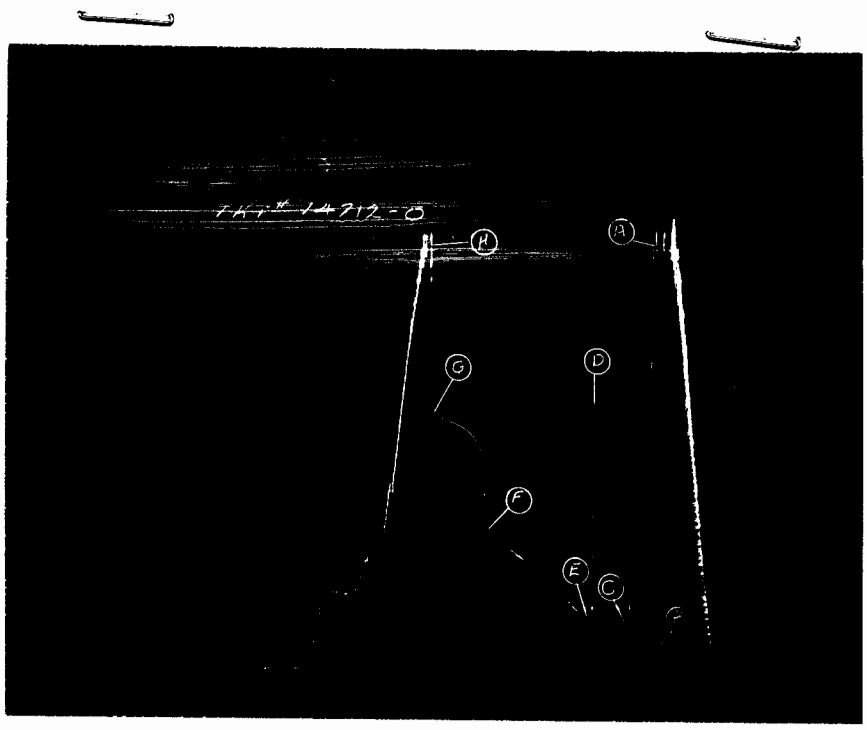
Point Minutes	Press.
0	169
3	858
6	992
9	1048
12	1094
15	1109
18	1125
21	1134
24	1144
27	1152
30	1159

Second Flow Pressure
Breakdown: 17 Inc.
of 5 mins. and a
final inc. of 3 Min.

Point Minutes	Press.
0	194
5	201
10	235
15	260
20	299
25	326
30	358
35	378
40	404
45	426
50	452
55	476
60	495
65	518
70	535
75	550
80	573
85	584
88	595

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

Point Minutes	Press.
0	595
3	897
6	968
9	1008
12	1029
15	1041
18	1051
21	1062
24	1069
27	1077
30	1082
33	1089
36	1094
39	1100
42	1102
45	1104



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1909	1872	PSI
(B)	First Initial Flow Pressure	52	49	PSI
(C)	First Final Flow Pressure	169	169	PSI
(D)	Initial Closed-in Pressure	1160	1159	PSI
(E)	Second Initial Flow Pressure	196	194	PSI
(F)	Second Final Flow Pressure	597	595	PSI
(G)	Final Closed-in Pressure	1102	1104	PSI
(H)	Final Hydrostatic Mud	1905	1857	PSI

COMPANY Messman & Rinehart Oil Co. LEASE AND WELL NO. Beers Estate #1 SEC. 23 TWP. 4 RGE. 27 TEST NO. 6 DATE 2-15-