15-135-20081

15-16s-21w

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

Company O. A. Sutton Lease & Well No. Elmore # 1

Elevation ____ Formation Cherokee Effective Pay 3 Ft. Ticket No. 10386

Date 11-19-67 Sec. 15 Twp. 16s Range 21w County Ness State Kansas

Test Approved by Bill Romig Western Representative Dean Blagrave

Formation Test No. 1 O.K. X Misrun ____ Interval Tested From 4144' to 4174' Total Depth 4174'

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

Packer Depth 4139 Ft. Size 6 3/4 Packer Depth 4144 Ft. Size 6 3/4

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

Packer Depth ____ Ft. Size ____

Tool Size 5½" OD Tool Jt. Size 4½" FH Anchor Length 30 Ft. Size 5½" OD

RECORDERS Depth 4165 Ft. Clock No. 8475 Depth 4168 Ft. Clock No. 6774

Top Make Amerada Cap. 4150 No. 2606 Inside/Outside Bottom Make Amerada Cap. 4300 No. 1567 ~~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 4:06 P. M

Tool Open I.F.P. From 4:09 P M. to 4:19 P M. Hr. 10 Min. From (B) 56 P.S.I. To (C) 56 P.S.I.

Tool Closed I.C.I.P. From 4:19 M. to 4:49 P M. Hr. 30 Min. (D) 1244 P.S.I.

Tool Open F.F.P. From 4:49 M. to 6:19 P M. 1 Hr. 30 Min. From (E) 68 P.S.I. To (F) 107 P.S.I.

Tool Closed F.C.I.P. From 6:19 M. to 7:19 P M. 1 Hr. -- Min. (G) 1184 P.S.I.

Initial Hydrostatic Pressure (A) 2170 P.S.I. Final Hydrostatic Pressure (H) 2135 P.S.I.

SURFACE INFORMATION	Size Choke 1/4 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

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

Did Well Flow ____ Yes X No Recovery Total Ft. 180 feet muddy oil

Reversed Out ____ Yes X No Mud Type starch Viscosity 49 Weight 9.6 Water Loss 16.6 cc. Maximum Temp. 114 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size no Make ____ Ser. No. ____

Type Circ. Sub plug Did Tool Plug? no Where? ____ Did Packer Hold? yes

Length Drill Pipe ____ ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe none ft. I.D. Weight Pipe ____ in. Length Drill Collars none ft.

I. D. Drill Collars ____ in. Length D.S.T. Tool 48 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 11-19-67 Test Ticket No. 10386

Recorder No. 2606 Capacity 4150 Location 4165 Ft.

Clock No. 8475 Elevation Well Temperature 114 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2170	P.S.I.	Opened Tool	4:06 P. M.	
B	First Initial Flow Pressure	56	P.S.I.	First Flow Pressure	10 Mins.	11 Mins.
C	First Final Flow Pressure	56	P.S.I.	Initial Closed-in Pressure	30 Mins.	29 Mins.
D	Initial Closed-in Pressure	1244	P.S.I.	Second Flow Pressure	90 Mins.	85 Mins.
E	Second Initial Flow Pressure	68	P.S.I.	Final Closed-in Pressure	60 Mins.	57 Mins.
F	Second Final Flow Pressure	107	P.S.I.			
G	Final Closed-in Pressure	1184	P.S.I.			
H	Final Hydrostatic Mud	2135	P.S.I.			

PRESSURE BREAKDOWN

First Flow Press. Breakdown: 2 Inc. of 5 mins. and a final inc. of 1 Min.

Initial Shut-In Breakdown: 9 Inc. of 3 mins. and a final inc. of 2 Min.

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

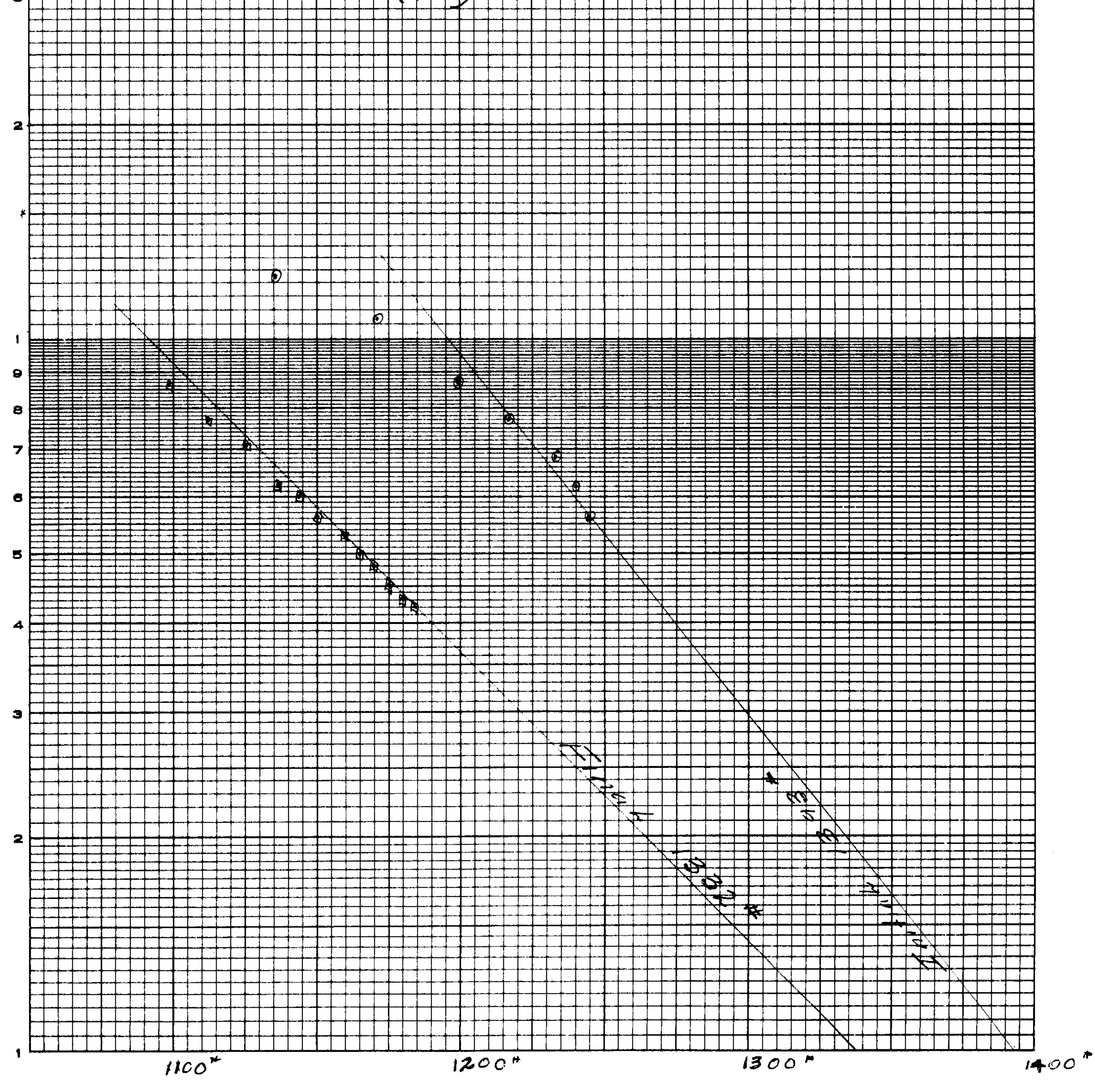
Final Shut-In Breakdown: 19 Inc. of 3 mins. and a final inc. of -- Min.

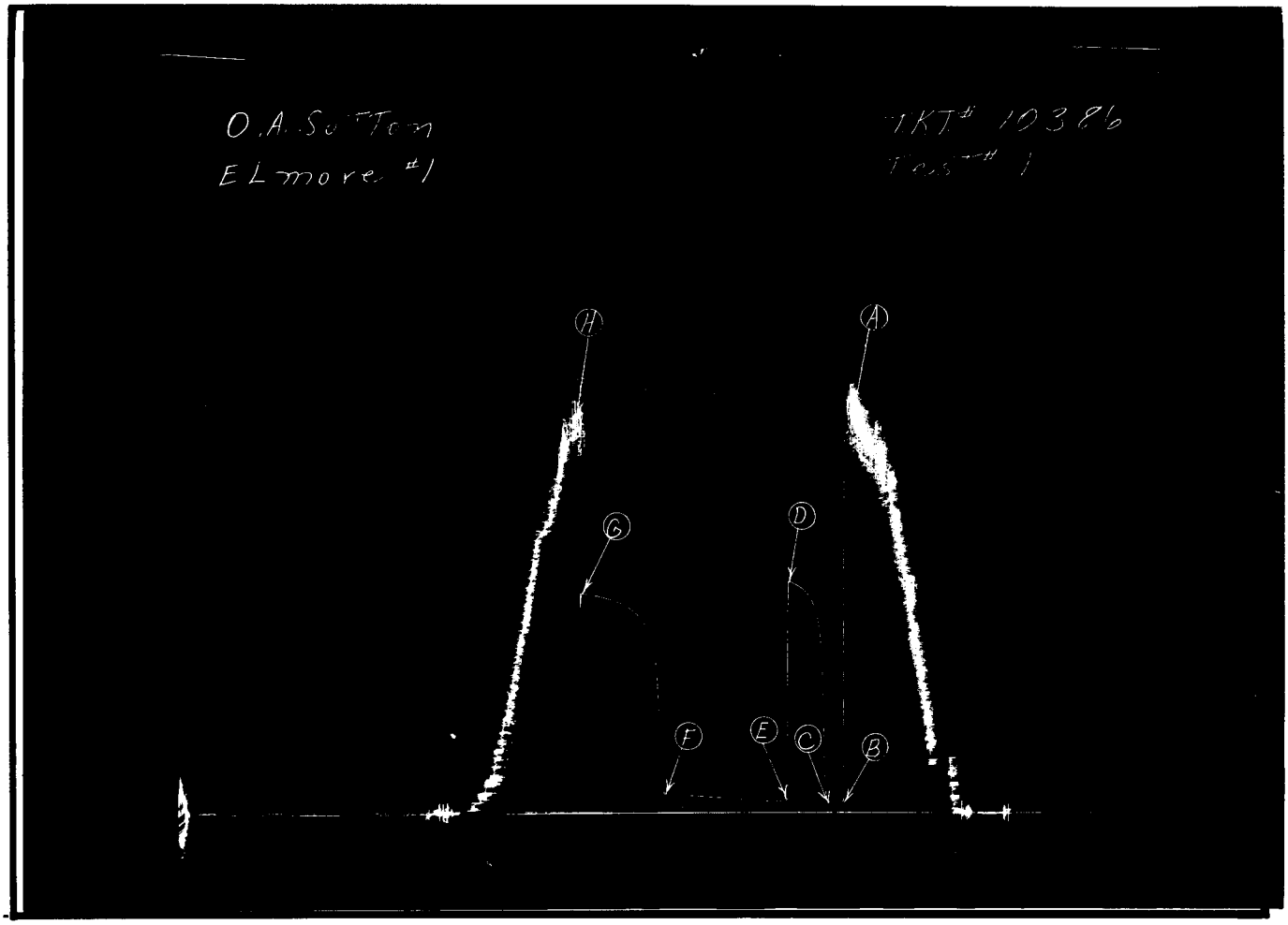
	First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	56	0	56	0	68	0	107
P 2	5	56	3	305	5	68	3	447
P 3	10	56	6	925	10	68	6	792
P 4	11	56	9	1072	15	70	9	937
P 5			12	1136	20	72	12	995
P 6			15	1171	25	76	12	1033
P 7			18	1198	30	81	18	1060
P 8			21	1217	35	83	21	1080
P 9			24	1233	40	85	24	1097
P10			27	1240	45	87	27	1113
P11			29	1244	50	90	30	1126
P12					55	93	33	1136
P13					60	95	36	1144
P14					65	97	39	1150
P15					70	101	42	1159
P16					75	104	45	1165
P17					80	106	48	1170
P18					85	107	51	1175
P19							54	1180
P20							57	1184

O. A. Sutton Elmore #1 Ness Co.

DST #1 4144-4174

205.00	PSI Slope
1.56	Damage
1.49	Bbls per hour
35.76	" " day
25.75	Average Permeability
9.91	Millidarcy feet per 3 feet effective pay.
2.24	Bbls per hour }
53.76	" " day } with damage removed.





This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2167	2170	PSI
(B)	First Initial Flow Pressure	52	56	PSI
(C)	First Final Flow Pressure	52	56	PSI
(D)	Initial Closed-in Pressure	1246	1244	PSI
(E)	Second Initial Flow Pressure	62	68	PSI
(F)	Second Final Flow Pressure	104	107	PSI
(G)	Final Closed-in Pressure	1184	1184	PSI
(H)	Final Hydrostatic Mud	2125	2135	PSI

C NW SH

WESTERN TESTERS

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

Company O. A. Sutton Lease & Well No. Elmore # 1

Elevation 2334 Kelly Bushings Formation Cherokee Effective Pay Ft. Ticket No. 10387

Date 11-20-67 Sec. 15 Twp. 16s Range 21w County Ness State Kansas

Test Approved by Bill Romig Western Representative Dean Blagrave

Formation Test No. 2 O.K. x Misrun Interval Tested From 4178' to 4188' Total Depth 4188'

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

Packer Depth 4173 Ft. Size 6 3/4 Packer Depth 4178 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½" OD Tool Jt. Size 4½" FH Anchor Length 10 Ft. Size 5½" OD

RECORDERS Depth 4182 Ft. Clock No. 8475 Depth 4185 Ft. Clock No. 6774

Top Make Amerada Cap. 4150 No. 2606 Inside Outside Bottom Make Amerada Cap. 4300 No. 1567 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 5:56 A. M

Tool Open I.F.P. From 5:58 M. to 6:08 A M. Hr. 10 Min. From (B) 54 P.S.I. To (C) 54 P.S.I.

Tool Closed I.C.I.P. From 6:08 M. to 6:38 A M. Hr. 30 Min. (D) 732 P.S.I.

Tool Open F.F.P. From 6:38 M. to 7:38 A M. 1 Hr. -- Min. From (E) 56 P.S.I. To (F) 58 P.S.I.

Tool Closed F.C.I.P. From 7:38 M. to 8:08 A M. Hr. 30 Min. (G) 83 P.S.I.

Initial Hydrostatic Pressure (A) 2152 P.S.I. Final Hydrostatic Pressure (H) 2135 P.S.I.

SURFACE INFORMATION	Size Choke 1/4 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Weak for ten minutes. Bottom Choke Size 3/4 In.

Did Well Flow Yes x No Recovery Total Ft. Five feet mud with scum of oil.

Reversed Out Yes x No Mud Type starch Viscosity 49 Weight 9.6 Water Loss 16.6 cc. Maximum Temp. 114 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size no Make Ser. No.

Type Circ. Sub. plug Did Tool Plug? no Where? Did Packer Hold? yes

Length Drill Pipe ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe none ft. I.D. Weight Pipe in. Length Drill Collars none ft.

I. D. Drill Collars in. Length D.S.T. Tool 28 ft.

Remarks Flushed at 15 minutes.

WESTERN TESTING CO., INC.
Pressure Data

Date 11-20-67 Test Ticket No. 10387

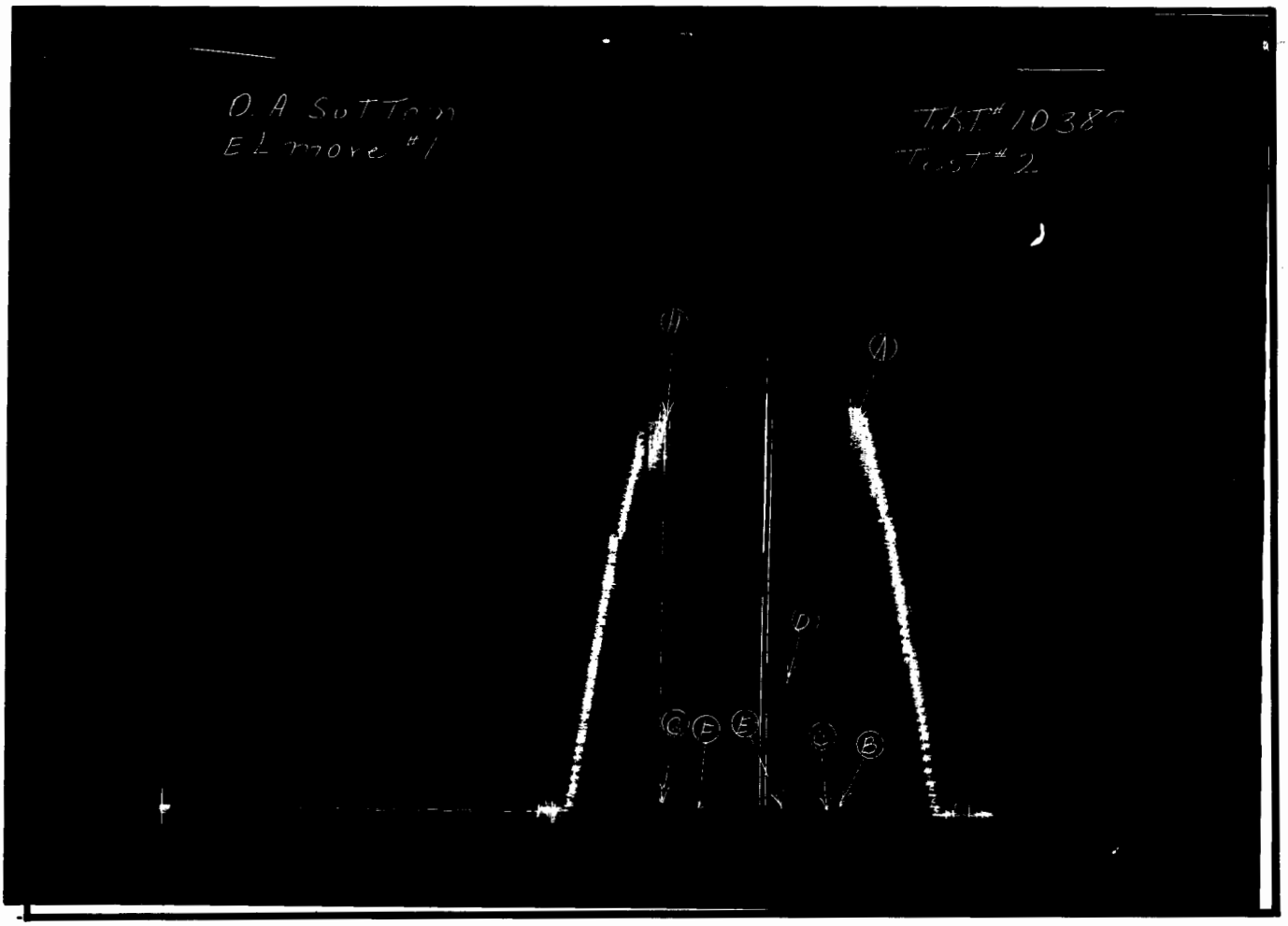
Recorder No. 2606 Capacity 4150 Location 4182 Ft.

Clock No. 8475 Elevation 2334 Kelly Bushings Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2152 P.S.I.	Opened Tool	5:58 A. M	5:58 AM
B First Initial Flow Pressure	54 P.S.I.	First Flow Pressure	10 Mins.	10 Mins.
C First Final Flow Pressure	54 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	732 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	56 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	58 P.S.I.			
G Final Closed-in Pressure	83 P.S.I.			
H Final Hydrostatic Mud	2135 P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 2 Inc.		Breakdown: 10 Inc.		Breakdown: 12 Inc.		Breakdown: 10 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of -- Min.		final inc. of -- Min.		final inc. of -- Min.		final inc. of -- Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	54	0	54	0	56	0	58
P 2 5	54	3	54	5	56	3	58
P 3 10	54	6	56	10	56	6	58
P 4		9	59	15	56	9	60
P 5		12	68	20	58	12	60
P 6		15	87	25	58	15	62
P 7		18	121	30	58	18	64
P 8		21	185	35	58	21	67
P 9		24	321	40	58	24	70
P10		27	514	45	58	27	76
P11		30	732	50	58	30	83
P12				55	58		
P13				60	58		
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2177	2152	PSI
(B)	First Initial Flow Pressure	52	54	PSI
(C)	First Final Flow Pressure	52	54	PSI
(D)	Initial Closed-in Pressure	738	732	PSI
(E)	Second Initial Flow Pressure	52	56	PSI
(F)	Second Final Flow Pressure	52	58	PSI
(G)	Final Closed-in Pressure	72	83	PSI
(H)	Final Hydrostatic Mud	2167	2135	PSI

CNH 54

WESTERN TESTERS

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

Company O. A. Sutton Lease & Well No. Elmore # 1

Elevation 2334 Kelly Bushings Formation Cherokee Effective Pay Ft. Ticket No. 10388

Date 11-21-67 Sec. 15 Twp. 16s Range 21w County Ness State Kansas

Test Approved by Bill Romig Western Representative Dean Blagrave

Formation Test No. 3 O.K. X Misrun Interval Tested From 4182' to 4211' Total Depth 4211'

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

Packer Depth 4177 Ft. Size 6 3/4 Packer Depth 4182 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½" OD Tool Jt. Size 4½" FH Anchor Length 29 Ft. Size 5½" OD

RECORDERS Depth 4202 Ft. Clock No. 8475 Depth 4205 Ft. Clock No. 6774

Top Make Amerada Cap. 4150 No. 2606 Inside Outside Bottom Make Amerada Cap. 4300 No. 1567 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 2:12 A. M

Tool Open I.F.P. From 2:15 M. to 2:25 A M. Hr 10 Min. From (B) 53 P.S.I. To (C) 763 P.S.I.

Tool Closed I.C.I.P. From 2:25 M. to 2:55 A M. Hr. 30 Min. (D) 1162 P.S.I.

Tool Open F.F.P. From 2:55 M. to 3:55 A M. 1 Hr. -- Min. From (E) 867 P.S.I. To (F) 1162 P.S.I.

Tool Closed F.C.I.P. From 3:55 M. to 4:55 A M. 1 Hr. -- Min. (G) 1162 P.S.I.

Initial Hydrostatic Pressure (A) 2120 P.S.I. Final Hydrostatic Pressure (H) 2105 P.S.I.

SURFACE INFORMATION	Size Choke 1/4 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Strong for 40 minutes and died. Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 2450 feet oil cut salt water.

Reversed Out X Yes No Mud Type starch Viscosity 53 Weight 9.5 Water Loss 11.6 cc. Maximum Temp. 125 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size Make Ser. No.

Type Circ. Sub plug Did Tool Plug? no Where? Did Packer Hold? yes

Length Drill Pipe ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe none ft. I.D. Weight Pipe in. Length Drill Collars none ft.

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

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 11-21-67 Test Ticket No. 10388

Recorder No. 2606 Capacity 4150 Location 4202 Ft.

Clock No. 8475 Elevation 2334 Kelly Bushings Well Temperature 125 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2120	P.S.I.	Opened Tool	2:15 A M	
B	First Initial Flow Pressure	53	P.S.I.	First Flow Pressure	10 Mins.	10 Mins.
C	First Final Flow Pressure	763	P.S.I.	Initial Closed-in Pressure	30 Mins.	29 Mins.
D	Initial Closed-in Pressure	1162	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	867	P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	1162	P.S.I.			
G	Final Closed-in Pressure	1162	P.S.I.			
H	Final Hydrostatic Mud	2105	P.S.I.			

PRESSURE BREAKDOWN

First Flow Press. Breakdown: 1 Inc. of 5 mins. and a final inc. of -- Min.

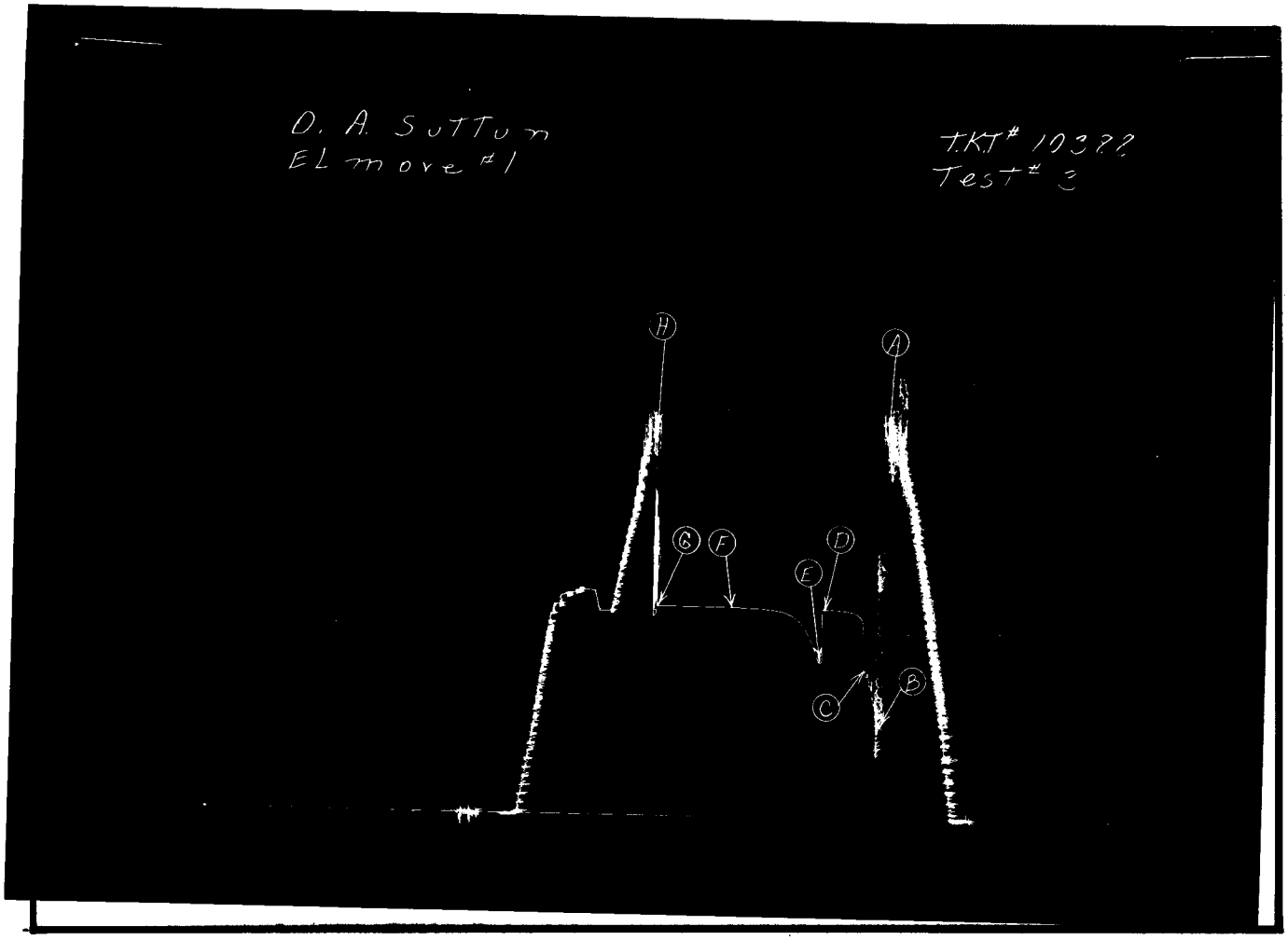
Initial Shut-In Breakdown: 9 Inc. of 3 mins. and a final inc. of 2 Min.

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

Final Shut-In Breakdown: 20 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	53	0	763	0	867	0	1162
P 2 5		3	1127	5	930	3	1162
P 3 10	763	6	1142	10	1018	6	1162
P 4		9	1153	15	1080	9	1162
P 5		12	1156	20	1113	12	1162
P 6		15	1158	25	1137	15	1162
P 7		18	1159	30	1148	18	1162
P 8		21	1161	35	1153	21	1162
P 9		24	1162	40	1158	24	1162
P10		27	1162	45	1158	27	1162
P11		29	1162	50	1160	30	1162
P12				55	1160	33	1162
P13				60	1162	36	1162
P14						39	1162
P15						42	1162
P16						45	1162
P17						48	1162
P18						51	1162
P19						54	1162
P20						57	1162
						60	1162

No break down on 5 min. due to plugging action.



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2125	2120	PSI
(B)	First Initial Flow Pressure	---	53	PSI
(C)	First Final Flow Pressure	---	763	PSI
(D)	Initial Closed-in Pressure	1163	1162	PSI
(E)	Second Initial Flow Pressure	862	867	PSI
(F)	Second Final Flow Pressure	1163	1162	PSI
(G)	Final Closed-in Pressure	1163	1162	PSI
(H)	Final Hydrostatic Mud	2104	2105	PSI

CNW SW

WESTERN

Home Office: Great Bend, Kansas

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

Company O. A. Sutton Lease & Well No. Elmore # 1

Elevation Formation Effective Pay Ft. Ticket No. 10389

Date 11-21-67 Sec. 15 Twp. 16s Range 21w County Ness State Kansas

Test Approved by Bill C. Romig Western Representative Dean Blagrave

Formation Test No. 4 O.K. Misrun X Interval Tested From 4231' to 4245' Total Depth 4245'

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

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

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

Packer Depth Ft. Size

Tool Size 5½" OD Tool Jt. Size 4½" FH Anchor Length 14 Ft. Size 5½" OD

RECORDERS Depth Ft. Clock No. Depth Ft. Clock No.

Top Make Cap. No. Inside Outside Bottom Make Cap. No. 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 M. to M. Hr. Min. From (B) P.S.I. To (C) P.S.I.

Tool Closed I.C.I.P. From M. to M. Hr. Min. (D) P.S.I.

Tool Open F.F.P. From M. to M. Hr. Min. From (E) P.S.I. To (F) P.S.I.

Tool Closed F.C.I.P. From M. to M. Hr. Min. (G) P.S.I.

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

SURFACE INFORMATION	Size Choke In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
	Could Not Get To Bottom.		M.	
			M.	

BLOW Bottom Choke Size In.

Did Well Flow Yes No Recovery Total Ft.

Reversed Out Yes No Mud Type Viscosity 43 Weight 9.7 Water Loss cc. Maximum Temp. °F

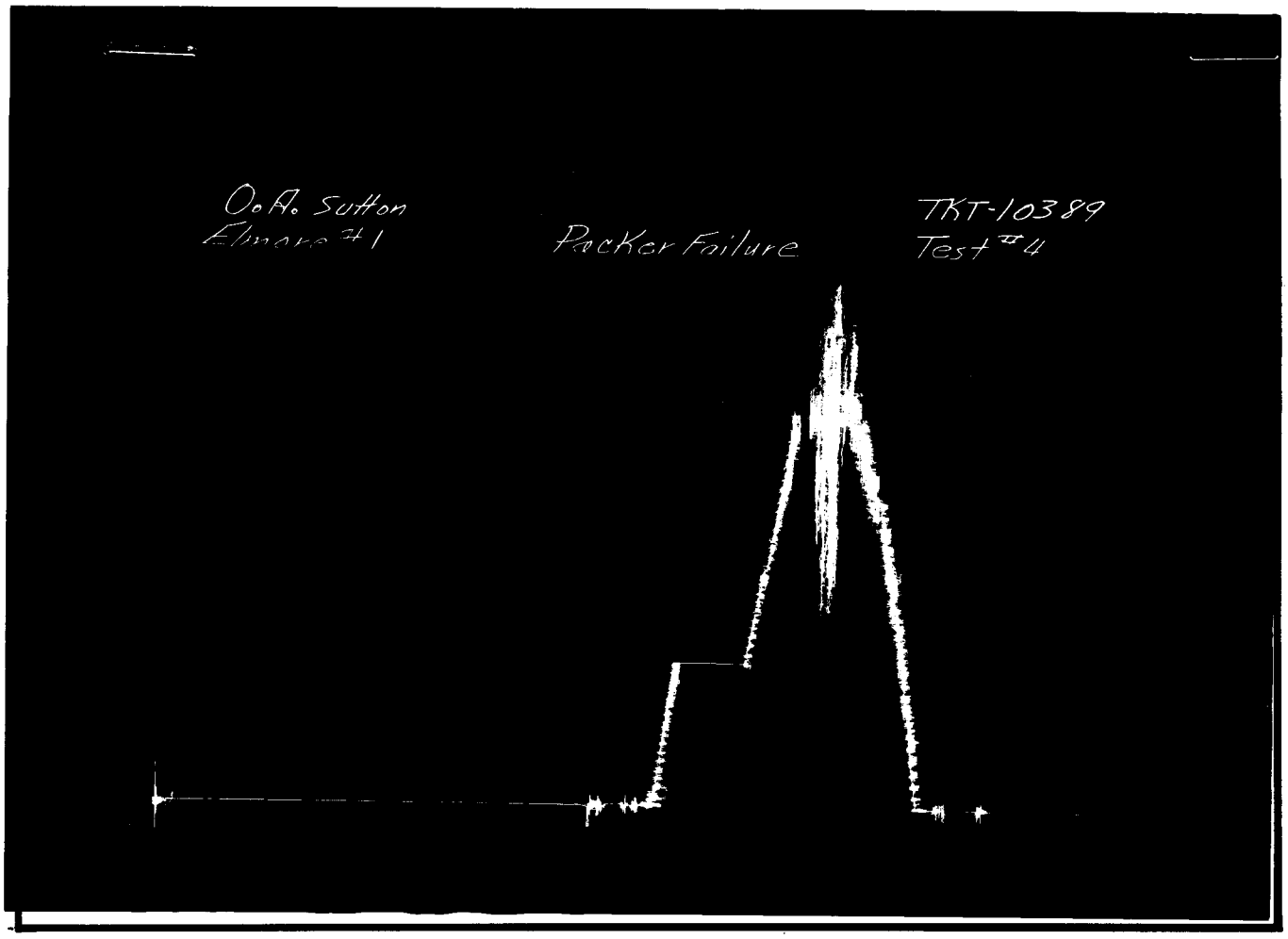
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size no Make Ser. No.

Type Circ. Sub. plug Did Tool Plug? Where? Did Packer Hold?

Length Drill Pipe 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 32 ft.

Remarks



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading
(A)	Initial Hydrostatic Mud		PSI
(B)	First Initial Flow Pressure		PSI
(C)	First Final Flow Pressure		PSI
(D)	Initial Closed-in Pressure		PSI
(E)	Second Initial Flow Pressure		PSI
(F)	Second Final Flow Pressure		PSI
(G)	Final Closed-in Pressure		PSI
(H)	Final Hydrostatic Mud		PSI

CNW SW