WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Pickrell Drilling Co. Lease & Well No. Slagel #2

Elevation 2331 Kelly Bushings Formation Marmaton Ticket Number 4550

Date Sept. 1,1965 Sec. 8 Twp. 20s Range 24w County Ness State Kansas

Test Approved by K. W. Johnson Western Representative W. M. Nething

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Formation Test No. 1 O.K. x Misrun Interval Tested From 4124' to 4170' Total Depth 4170'

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

Packer Depth 4124 Ft. Size 6 3/4 Packer Depth 4119 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½ OD Tool Jt. Size 4½ FH Anchor Length 46 Ft. Size 4½ OD

RECORDERS Depth 4134 Ft. Clock No. 6896 Depth 4136 Ft. Clock No. 142

Top Make Amerada Cap. 3150 No. 1560 Inside Outside Bottom Make Western Cap. 4000 No. 17 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 4:42 A M

Tool Open I.F.P. From 4:45 M to 4:51 M Hr. 6 Min. From (B) 40 P.S.I. To (C) 63 P.S.I.

Tool Closed I.C.I.P. From 4:51 M. to 5:21 M. Hr. 30 Min. (D) 1335 P.S.I.

Tool Open F.F.P. From 5:21A M. to 6:21 M. Hr. 60 Min. From (E) 91 P.S.I. To (F) 245 P.S.I.

Tool Closed F.C.I.P. From 6:21 M. to 6:51 M. Hr. 30 Min. (G) 1271 P.S.I.

Initial Hydrostatic Pressure (A) 2211 P.S.I. Final Hydrostatic Pressure (H) 2203 P.S.I.

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

_____ | _____ | _____ M. | _____

_____ | _____ | _____ M. | _____

_____ | _____ | _____ M. | _____

BLOW Good blow throughout test. Bottom Choke Size 3/4 In.

Did Well Flow Yes x No Recovery Total Ft. 90' slightly oil cut gassy mud; 300' gassy slightly oil cut watery mud; 120' very slightly oil cut water. Mud

Reversed Out Yes No Mud Type starch Viscosity 43 Weight 9.9 Maximum Temp. 123 °F

EXTRA EQUIPMENT: Dual Packers dual 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 3047 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1067 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 66 ft.

Remarks

Pressure Data

Date September 1, 1965

Test Ticket No. 4550

Recorder No. 1560 Capacity 3150 Location 4134 Ft.

Clock No. 6896 Elevation 2331 Kelly Bushings Well Temperature 123 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2211 P.S.I.		Opened Tool	4:42A M	
B	First Initial Flow Pressure	40 P.S.I.		First Flow Pressure	6 Mins.	6 Mins.
C	First Final Flow Pressure	63 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1335 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	91 P.S.I.		Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	245 P.S.I.				
G	Final Closed-in Pressure	1271 P.S.I.				
H	Final Hydrostatic Mud	2203 P.S.I.				

PRESSURE BREAKDOWN

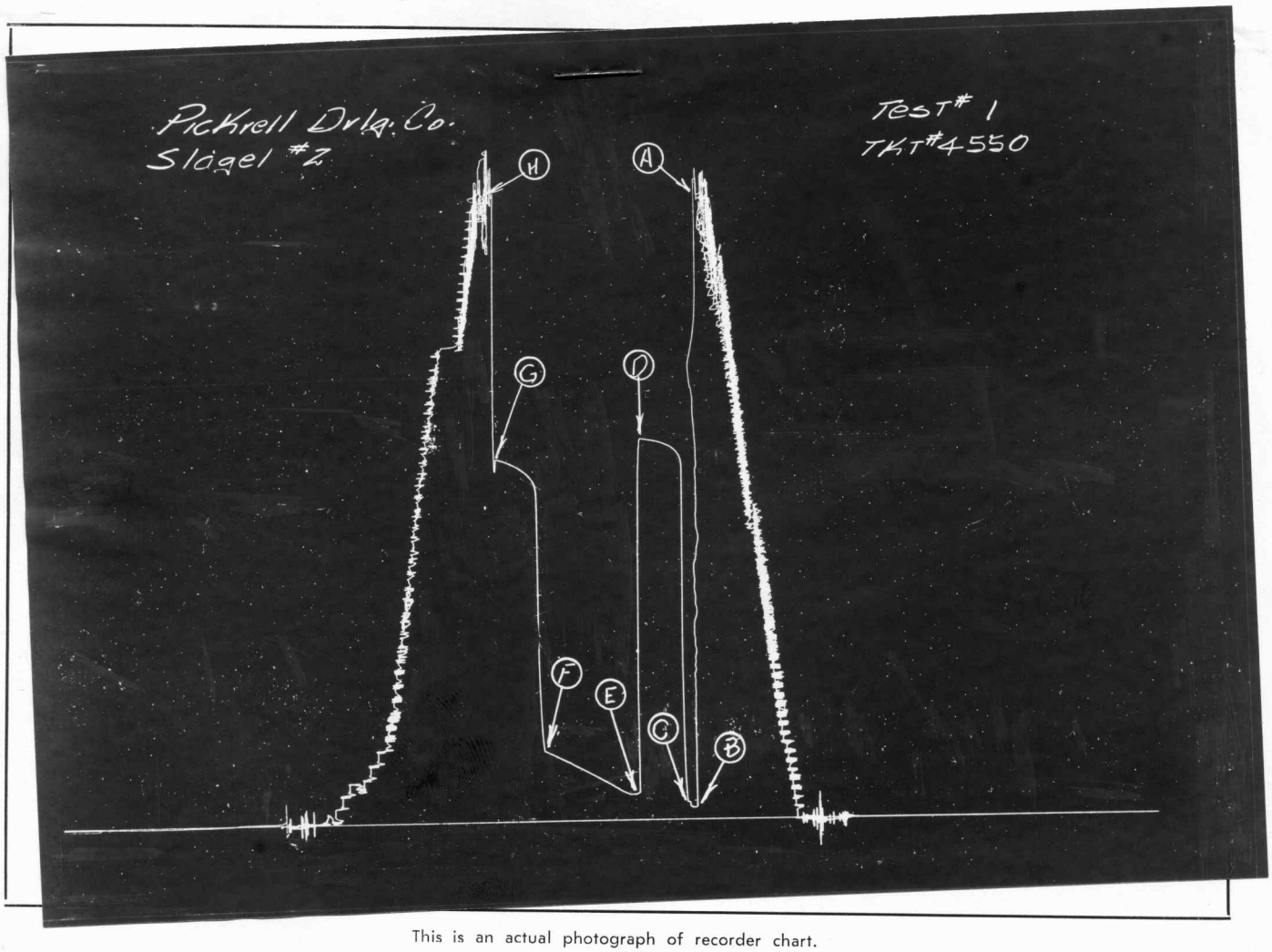
First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of 1 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.	Point	Minutes	Press.
P 1	0	40		0	63		0	91		0	245
P 2	5	61		3	506		5	92		3	565
P 3	6	63		6	1280		10	100		6	1189
P 4				9	1299		15	117		9	1210
P 5				12	1310		20	133		12	1226
P 6				15	1318		25	149		15	1239
P 7				18	1323		30	163		18	1247
P 8				21	1328		35	176		21	1255
P 9				24	1331		40	191		24	1261
P10				27	1334		45	207		27	1267
P11				30	1335		50	221		30	1271
P12							55	234			
P13							60	245			
P14											
P15											
P16											
P17											
P18											
P19											
P20											



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	2211	PSI
(B)	First Initial Flow Pressure	40	PSI
(C)	First Final Flow Pressure	63	PSI
(D)	Initial Closed-in Pressure	1335	PSI
(E)	Second Initial Flow Pressure	91	PSI
(F)	Second Final Flow Pressure	245	PSI
(G)	Final Closed-in Pressure	1271	PSI
(H)	Final Hydrostatic Mud	2203	PSI

COMPANY PICKRELL DRILLING CO. LEASE AND WELL NO. SLAGEL #2 SEC. 8 TWP. 20s RGE. 24w TEST NO. 1 DATE 9-1-65

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Slagel #2

Elevation 2331 Kelly Bushings Formation Ft. Scott Ticket Number 4501

Date Sept.2,1965 Sec. 8 Twp. 20s Range 24w County Ness State Kansas

Test Approved by Don C. Couch Western Representative W. M. Nething

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Formation Test No. 2 O.K. X Misrun ____ Interval Tested From 4272' to 4315' Total Depth 4315'

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

Packer Depth 4272 Ft. Size 6 3/4 Packer Depth 4267 Ft. Size 6 3/4

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

Packer Depth ____ Ft. Size ____

Tool Size 5½ OD Tool Jt. Size 4½ FH Anchor Length 43 Ft. Size 5½ OD

RECORDERS Depth 4282 Ft. Clock No. 6896 Depth 4284 Ft. Clock No. 142

Top Make Amerada Cap. 3150 No. 1560 Inside Outside Bottom Make Western Cap. 4000 No. 17 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

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Time Set Packer 6:44 P M

Tool Open I.F.P. From 6:47 M to 6:52 M Hr. 5 Min. From (B) 15 P.S.I. To (C) 18 P.S.I.

Tool Closed I.C.I.P. From 6:52 M. to 7:22 M. Hr. 30 Min. (D) 1285 P.S.I.

Tool Open F.F.P. From 7:22P M. to 8:02 M. Hr. 40 Min. From (E) 34 P.S.I. To (F) 36 P.S.I.

Tool Closed F.C.I.P. From 8:02 M. to 8:32 M. Hr. 30 Min. (G) 924 P.S.I.

Initial Hydrostatic Pressure (A) 2302 P.S.I. Final Hydrostatic Pressure (H) 2294 P.S.I.

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

BLOW Weak blow five minutes. Flushed tool in 15 and 30 minutes. Bottom Choke Size 3/4 In.

Did Well Flow ____ Yes X No Recovery Total Ft. 10' mud with few specks oil

Mud

Reversed Out ____ Yes X No Mud Type starch Viscosity 48 Weight 10.1 Maximum Temp. 122 °F

EXTRA EQUIPMENT: Dual Packers dual 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 3187 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1065 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ____ ft.

I. D. Drill Collars ____ in. Length D.S.T. Tool 63 ft.

Remarks

Pressure Data

Date September 2, 1965 Test Ticket No. 4501

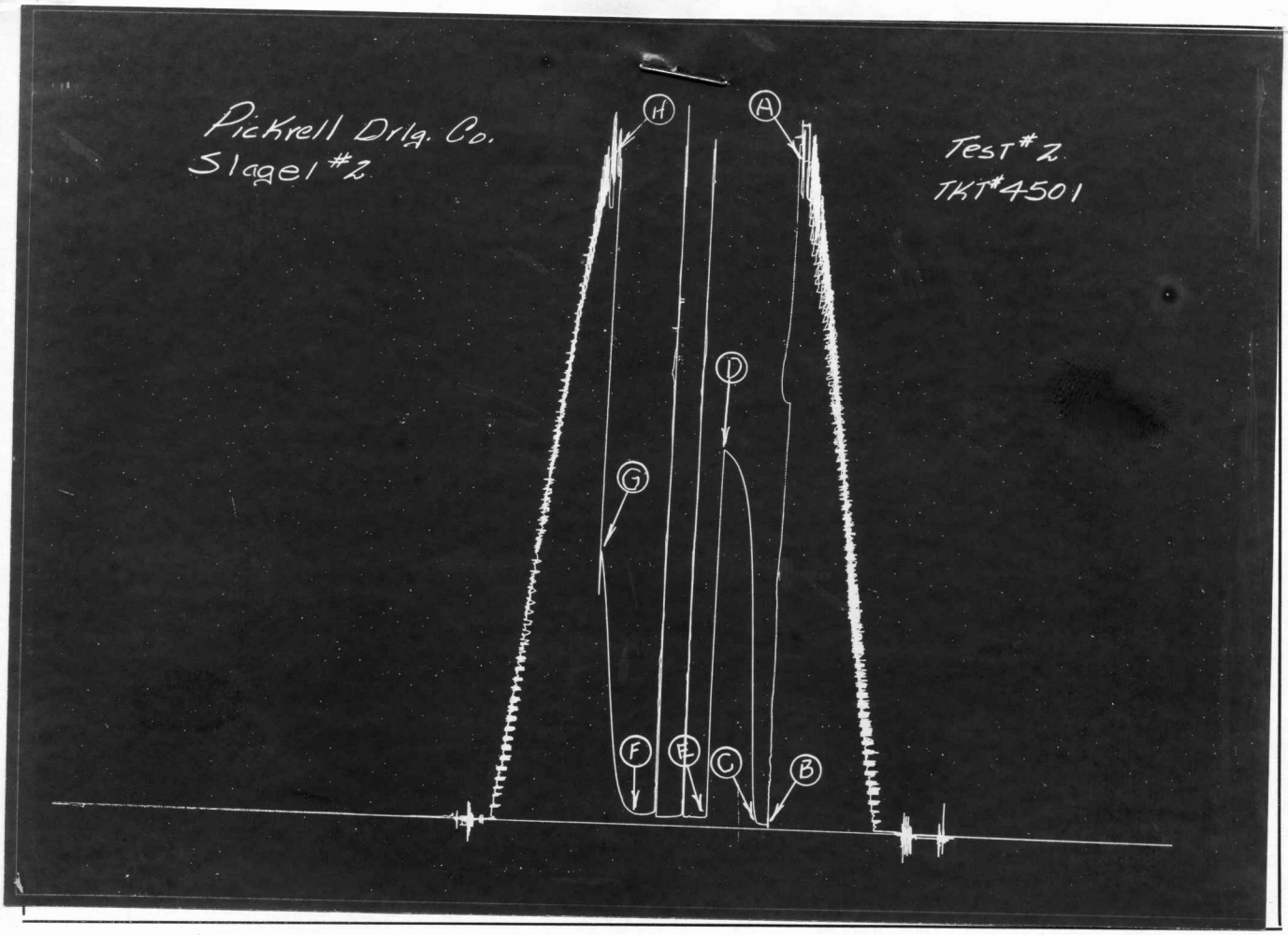
Recorder No. 1560 Capacity 3150 Location 4282 Ft.

Clock No. 6896 Elevation 2331 Kelly Bushings Well Temperature 122 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2302	P.S.I.	Opened Tool 6:44 P M	
B	First Initial Flow Pressure	15	P.S.I.	First Flow Pressure 5 Mins.	5 Mins.
C	First Final Flow Pressure	18	P.S.I.	Initial Closed-in Pressure 30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1285	P.S.I.	Second Flow Pressure 40 Mins.	40 Mins.
E	Second Initial Flow Pressure	34	P.S.I.	Final Closed-in Pressure 30 Mins.	30 Mins.
F	Second Final Flow Pressure	36	P.S.I.		
G	Final Closed-in Pressure	924	P.S.I.		
H	Final Hydrostatic Mud	2294	P.S.I.		

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 1 Inc.		Breakdown: 10 Inc.		Breakdown: 8 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 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	**Press.**	**Point Minutes**	**Press.**	**Point Minutes**	**Press.**	**Point Minutes**	**Press.**
P 1 0	15	0	18	0	34	0	36
P 2 5	18	3	116	5	34	3	43
P 3		6	428	10	34	6	53
P 4		9	791	15	34	9	84
P 5		12	1015	20	34	12	128
P 6		15	1131	25	34	15	229
P 7		18	1197	30	34	18	367
P 8		21	1236	35	36	21	534
P 9		24	1258	40	36	24	744
P10		27	1274			27	880
P11		30	1285			30	924
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	2302	PSI
(B)	First Initial Flow Pressure	15	PSI
(C)	First Final Flow Pressure	18	PSI
(D)	Initial Closed-in Pressure	1285	PSI
(E)	Second Initial Flow Pressure	34	PSI
(F)	Second Final Flow Pressure	36	PSI
(G)	Final Closed-in Pressure	924	PSI
(H)	Final Hydrostatic Mud	2294	PSI

COMPANY PICKRELL DRILLING CO. LEASE AND WELL NO. SLAGEL #2 SEC. 8 TWP. 20s RGE. 24w TEST NO. 2 DATE 9-2-65

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Slagle #2

Elevation 2331 Kelly Bushings Formation Miss. Ticket Number 5062

Date Sept.4,1965 Sec. Twp. Range County Ness State Kansas

Test Approved by K. W. Johnson Western Representative Dean Blagrave

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Formation Test No. 3 O.K. X Misrun Interval Tested From 4326' to 4395' Total Depth 4395'

Size Main Hole 7 7/8 Rat Hole none Conv. B.T. X Damaged Yes X No Conv. X B.T. Damaged Yes X No

Packer Depth 4321 Ft. Size 6 3/4 Packer Depth 4326 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½ OD Tool Jt. Size 4½ FH Anchor Length 69 Ft. Size 5½ OD

RECORDERS Depth 4352 Ft. Clock No. 6774 Depth 4355 Ft. Clock No. 143

Top Make Amerada Cap. 4300 No. 1567 Inside Outside Bottom Make Western Cap. 3600 No. 30 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

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Time Set Packer 3:58 A M

Tool Open I.F.P. From 4:01 M to 4:06 M. Hr. 5 Min. From (B) 32 P.S.I. To (C) 32 P.S.I.

Tool Closed I.C.I.P. From 4:06 M. to 4:36 M. Hr. 30 Min. (D) 57 P.S.I.

Tool Open F.F.P. From 4:36 M. to 5:21 M. Hr. 45 Min. From (E) 34 P.S.I. To (F) 38 P.S.I.

Tool Closed F.C.I.P. From 5:21 M. to 5:51 M. Hr. 30 Min. (G) 43 P.S.I.

Initial Hydrostatic Pressure (A) 2341 P.S.I. Final Hydrostatic Pressure (H) 2326 P.S.I.

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

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

Did Well Flow Yes X No Recovery Total Ft. 15' mud

Mud

Reversed Out Yes X No Mud Type starch Viscosity 46 Weight 10.1 Maximum Temp. 124 °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 3290 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1035 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.

I. D. Drill Collars in. Length D.S.T. Tool 18 ft.

Remarks Flushed tool at 15 and 30 minutes.

Date September 4, 1965

Test Ticket No. 5062

Recorder No. 1567 Capacity 4300 Location 4352 Ft.

Clock No. 6774 Elevation 2331 Kelly Bushings Well Temperature 124 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2341	P.S.I.	Opened Tool	3:58 A M	
B	First Initial Flow Pressure	32	P.S.I.	First Flow Pressure	5 Mins.	5 Mins.
C	First Final Flow Pressure	32	P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D	Initial Closed-in Pressure	57	P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	34	P.S.I.	Final Closed-in Pressure	30 Mins.	28 Mins.
F	Second Final Flow Pressure	38	P.S.I.			
G	Final Closed-in Pressure	43	P.S.I.			
H	Final Hydrostatic Mud	2326	P.S.I.			

PRESSURE BREAKDOWN

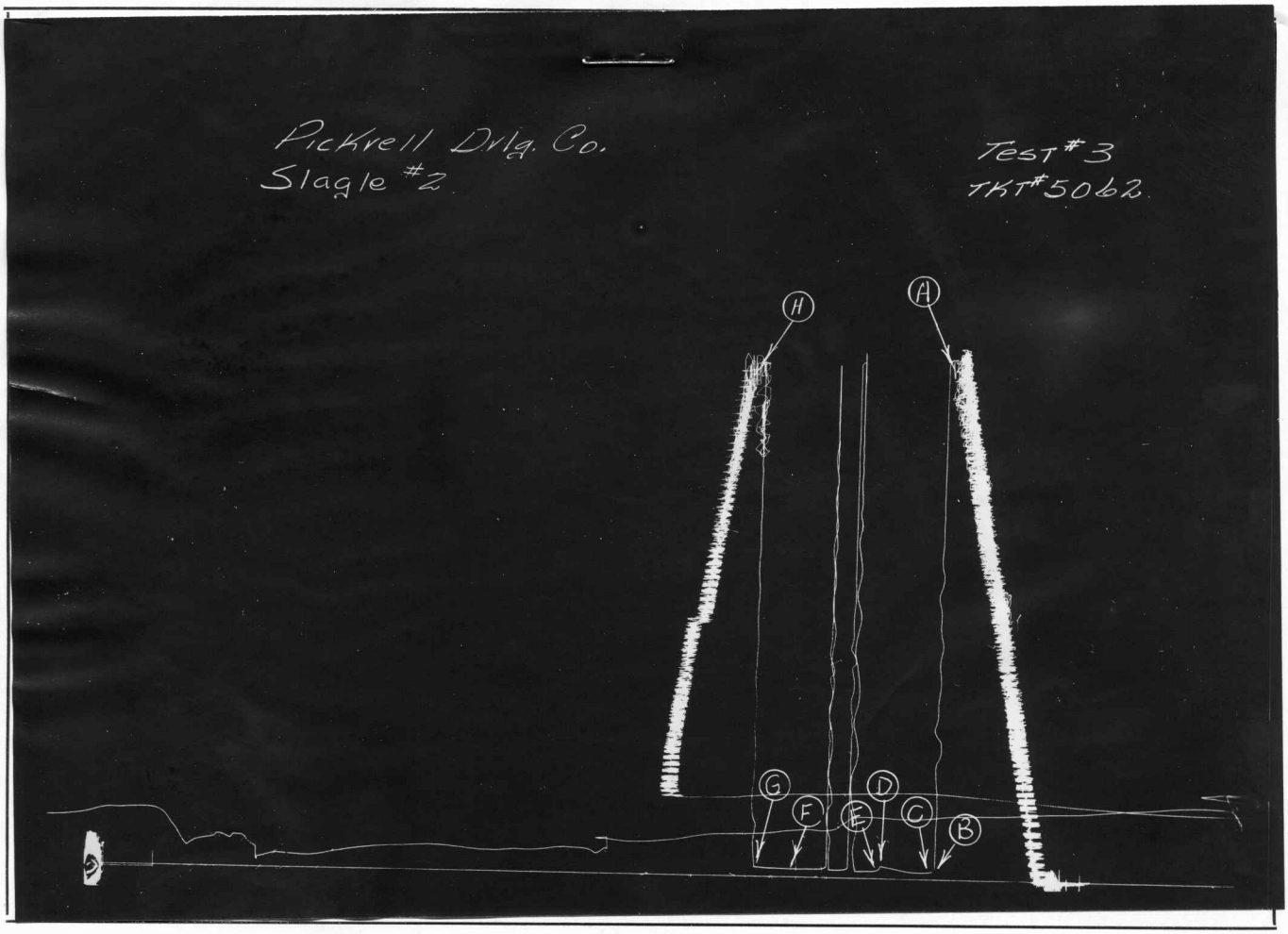
First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of 0 Min. 0

Initial Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 1 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	32	0	32	0	34	0	38
P 2 5	32	3	33	5	34	3	38
P 3		6	34	10	34	6	39
P 4		9	35	15	34	9	39
P 5		12	36	20	36	12	39
P 6		15	38	25	36	15	40
P 7		18	43	30	36	18	40
P 8		21	49	35	38	21	41
P 9		24	53	40	38	24	42
P10		27	57	45	38	27	42
P11				50		28	43
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	2341	PSI
(B)	First Initial Flow Pressure	32	PSI
(C)	First Final Flow Pressure	32	PSI
(D)	Initial Closed-in Pressure	57	PSI
(E)	Second Initial Flow Pressure	34	PSI
(F)	Second Final Flow Pressure	38	PSI
(G)	Final Closed-in Pressure	43	PSI
(H)	Final Hydrostatic Mud	2326	PSI

COMPANY PICKRELL DRILLING CO. LEASE AND WELL NO. SLAGLE #2 SEC. TWP. RGE. TEST NO. 3 DATE 9-4-65

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Slagle #2

Elevation 2331 Kelly Bushings Formation Miss. Ticket Number 5063

Date Sept. 4, 1965 Sec. Twp. Range County Ness State Kansas

Test Approved by K. W. Johnson Western Representative Dean Blagrave

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Formation Test No. 4 O.K. X Misrun Interval Tested From 4393' to 4403' Total Depth 4403'

Size Main Hole 7 7/8 Rat Hole none Conv. B.T. X Damaged Yes X No Conv. X B.T. Damaged Yes X No

Packer Depth 4388 Ft. Size 6 3/4 Packer Depth 4393 Ft. Size 6 3/4

Straddle Yes X No 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 4396 Ft. Clock No. 6774 Depth 4399 Ft. Clock No. 143

Top Make Amerada Cap. 4300 No. 1567 Inside Outside Bottom Make Western Cap. 3600 No. 30 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 5:02 P M

Tool Open I.F.P. From 5:05 M to 5:10 M Hr. 5 Min. From (B) 17 P.S.I. To (C) 17 P.S.I.

Tool Closed I.C.I.P. From 5:10 M. to 5:40 M. Hr. 30 Min. (D) 1178 P.S.I.

Tool Open F.F.P. From 5:40 M. to 6:25 M. Hr. 45 Min. From (E) 21 P.S.I. To (F) 32 P.S.I.

Tool Closed F.C.I.P. From 6:25 M. to 6:55 M. Hr. 30 Min. (G) 948 P.S.I.

Initial Hydrostatic Pressure (A) 2370 P.S.I. Final Hydrostatic Pressure (H) 2348 P.S.I.

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

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

Did Well Flow Yes X No Recovery Total Ft. 15' oil cut mud. Some free oil in tool.

Mud

Reversed Out Yes X No Mud Type starch Viscosity 48 Weight 10 Maximum Temp. 125 °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 3320 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1065 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.

I. D. Drill Collars in. Length D.S.T. Tool 18 ft.

Remarks Flushed tool at 15 and 30 minutes.

Date September 4, 1965 Test Ticket No. 5063

Recorder No. 1567 Capacity 4300 Location 4396 Ft.

Clock No. 6774 Elevation 2331 Kelly Bushings Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2370 P.S.I.	Opened Tool	5:02 P M	
B First Initial Flow Pressure	17 P.S.I.	First Flow Pressure	5 Mins.	5 Mins.
C First Final Flow Pressure	17 P.S.I.	Initial Closed-in Pressure	30 Mins.	29 Mins.
D Initial Closed-in Pressure	1178 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	21 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	32 P.S.I.			
G Final Closed-in Pressure	948 P.S.I.			
H Final Hydrostatic Mud	2348 P.S.I.			

PRESSURE BREAKDOWN

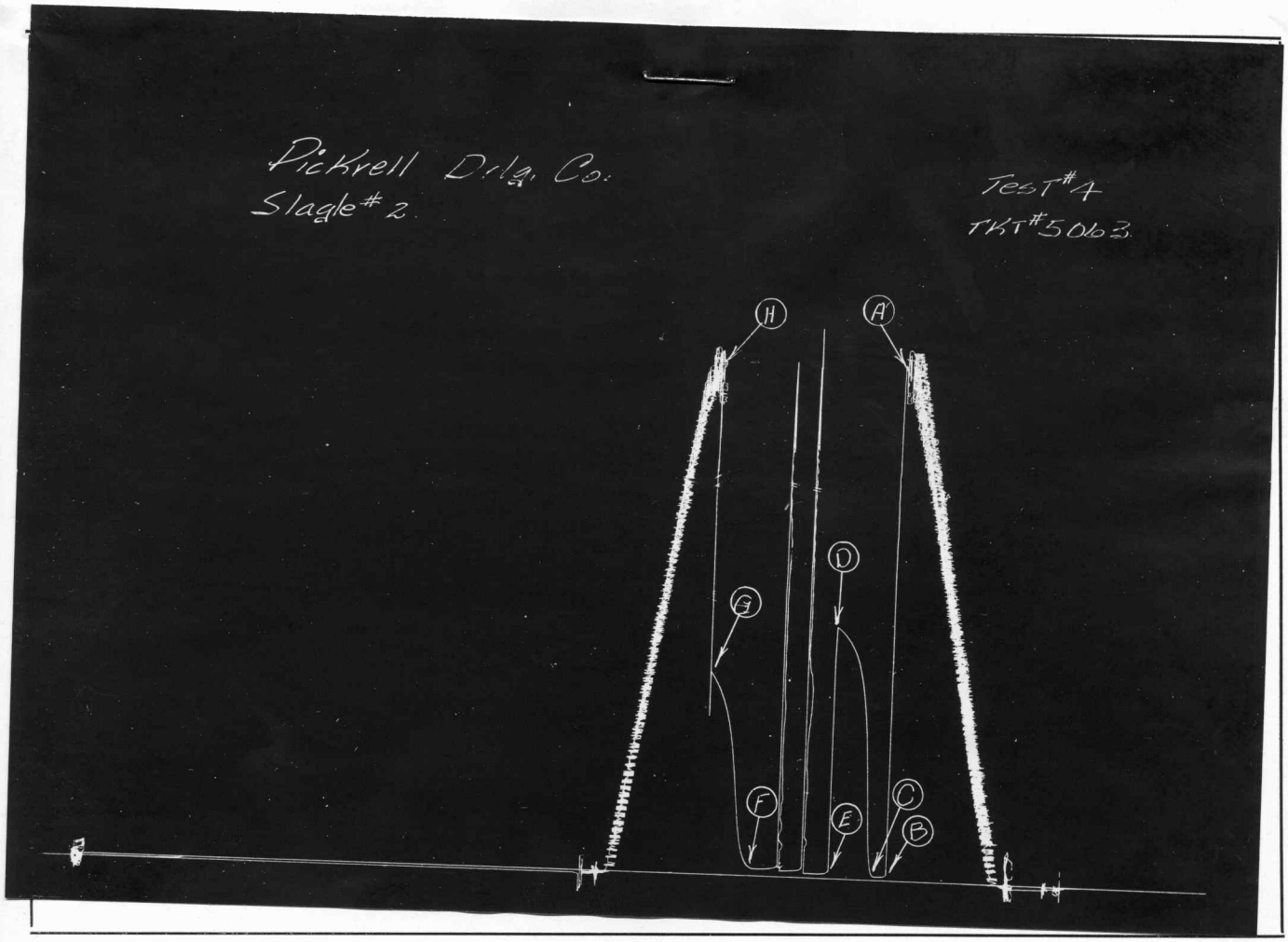
First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of 0 Min.

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

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	17	0	17	0	21	0	32
P 2 5	17	3	101	5	21	3	49
P 3		6	478	10	21	6	101
P 4		9	792	15	21	9	205
P 5		12	948	20	28	12	421
P 6		15	1038	25	28	15	629
P 7		18	1088	30	28	18	751
P 8		21	1122	35	32	21	831
P 9		24	1150	40	32	24	879
P10		27	1172	45	32	27	928
P11		29	1178			30	948
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	2370	PSI
(B)	First Initial Flow Pressure	17	PSI
(C)	First Final Flow Pressure	17	PSI
(D)	Initial Closed-in Pressure	1178	PSI
(E)	Second Initial Flow Pressure	21	PSI
(F)	Second Final Flow Pressure	32	PSI
(G)	Final Closed-in Pressure	948	PSI
(H)	Final Hydrostatic Mud	2348	PSI

COMPANY PICKRELL DRILLING CO. LEASE AND WELL NO. SLAGLE #2 SEC. TWP. RGE. TEST NO. 4 DATE 9-4-65

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 GLadstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Slagle #2

Elevation 2331 Kelly Bushings Formation Miss. Ticket Number 5064

Date Sept.5,1965 Sec. Twp. Range County Ness State Kansas

Test Approved by K. W. Johnson Western Representative Dean Blagrave

Formation Test No. 5 O.K. X Misrun Interval Tested From 4398' to 4408' Total Depth 4408'

Size Main Hole 7 7/8 Rat Hole none Conv. B.T. X Damaged Yes X No Conv. X B.T. Damaged X Yes No

Packer Depth 4393 Ft. Size 6 3/4 Packer Depth 4398 Ft. Size 6 3/4

Straddle Yes X No 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 4401 Ft. Clock No. 6774 Depth 4404 Ft. Clock No. 143

Top Make Amerada Cap. 4300 No. 1567 Inside Outside Bottom Make Western Cap. 3600 No. 30 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 2:37 A M

Tool Open I.F.P. From 2:40 M to 2:45 M Hr. 5 Min. From (B) 19 P.S.I. To (C) 19 P.S.I.

Tool Closed I.C.I.P. From 2:45 M. to 3:15 M. Hr. 30 Min. (D) 1219 P.S.I.

Tool Open F.F.P. From 3:15 M. to 5:15 M. 2 Hr. Min. From (E) 25 P.S.I. To (F) 54 P.S.I.

Tool Closed F.C.I.P. From 5:15 M. to 5:55 M. Hr. 40 Min. (G) 844 P.S.I.

Initial Hydrostatic Pressure (A) 2387 P.S.I. Final Hydrostatic Pressure (H) 2357 P.S.I.

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

BLOW Weak blow for one hour 45 minutes. Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 20' clean oil; 40' heavy oil cut mud; 60' oil cut mud

Mud

Reversed Out Yes X No Mud Type starch Viscosity 47 Weight 10 Maximum Temp. 126 °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 3330 ft. I.D. Drill Pipe 3 8 in Length Weight Pipe 1065 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars none ft.

I. D. Drill Collars in. Length D.S.T. Tool 18 ft.

Remarks

Pressure Data

Date: September 5, 1965

Test Ticket No. 5064

Recorder No. 1567 Capacity 4300 Location 4401 Ft.

Clock No. 6774 Elevation 2331 Kelly Bushings Well Temperature 126 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2387 P.S.I.	Opened Tool	2:37 A M	
B	First Initial Flow Pressure	19 P.S.I.	First Flow Pressure	5 Mins.	5 Mins.
C	First Final Flow Pressure	19 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1219 P.S.I.	Second Flow Pressure	120 Mins.	120 Mins.
E	Second Initial Flow Pressure	25 P.S.I.	Final Closed-in Pressure	40 Mins.	39 Mins.
F	Second Final Flow Pressure	54 P.S.I.			
G	Final Closed-in Pressure	844 P.S.I.			
H	Final Hydrostatic Mud	2357 P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	19
P 2 5	19
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

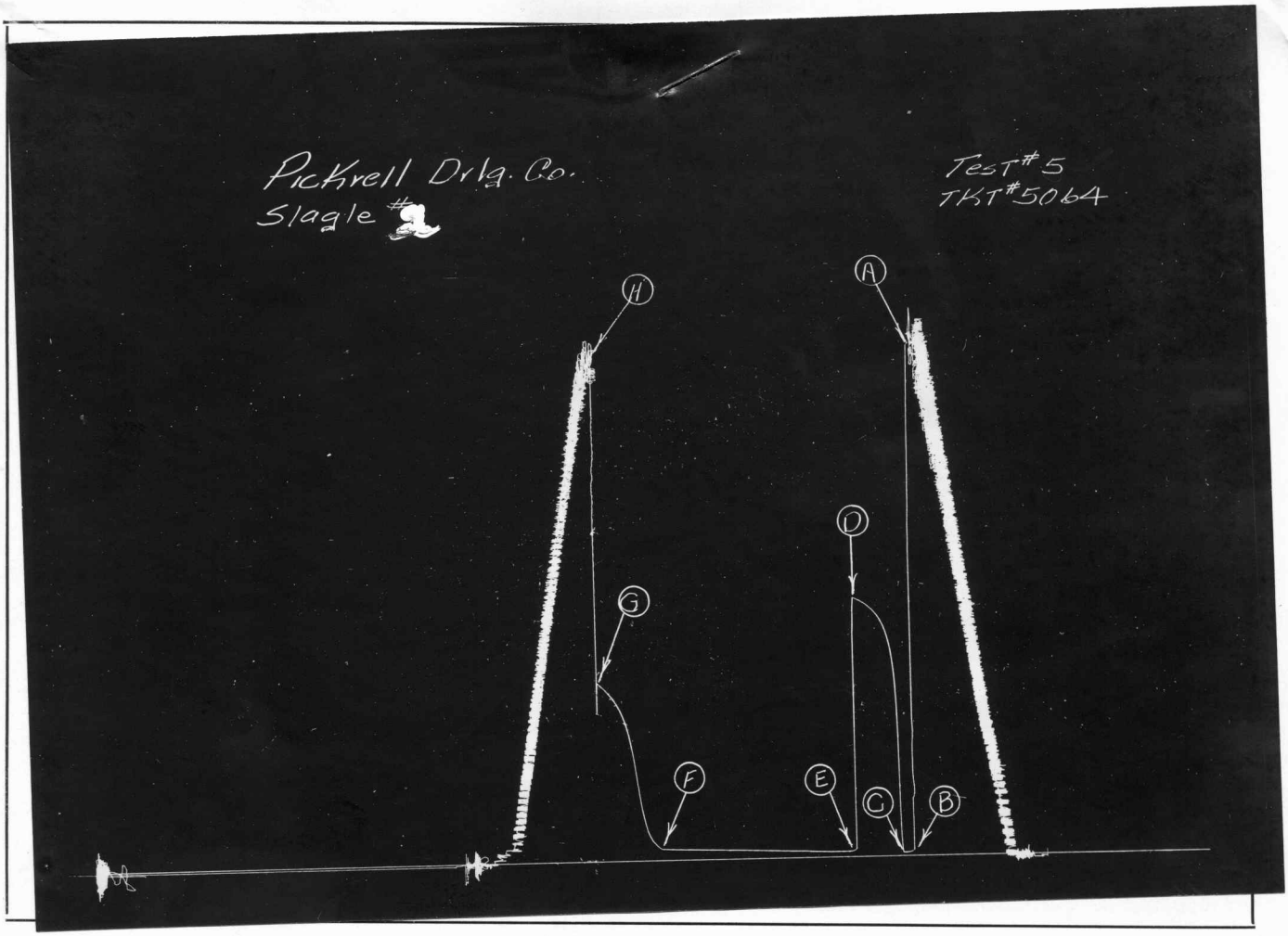
Point Minutes	Press.
0	19
3	583
6	917
9	1036
12	1098
15	1135
18	1163
21	1182
24	1197
27	1208
30	1219

Second Flow Pressure
Breakdown: 24 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	25
5	25
10	26
15	27
20	28
25	30
30	32
35	33
40	35
45	36
50	37
55	38
60	38
65	40
70	42
75	45
80	46
85	47
90	48
95	49
100	50
105	51
110	52
115	53
120	54

Final Shut-In
Breakdown: 13 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	54
3	73
6	101
9	159
12	267
15	404
18	545
21	633
24	702
27	747
30	781
33	805
36	825
39	844



This is an actual photograph of recorder chart.

POINT		PRESSURE	
(A)	Initial Hydrostatic Mud	2387	PSI
(B)	First Initial Flow Pressure	19	PSI
(C)	First Final Flow Pressure	19	PSI
(D)	Initial Closed-in Pressure	1219	PSI
(E)	Second Initial Flow Pressure	25	PSI
(F)	Second Final Flow Pressure	54	PSI
(G)	Final Closed-in Pressure	844	PSI
(H)	Final Hydrostatic Mud	2357	PSI

COMPANY PICKRELL DRILLING CO. LEASE AND WELL NO. SLAGLE #2 SEC. TWP. RGE. TEST NO. 5 DATE 9-5-65