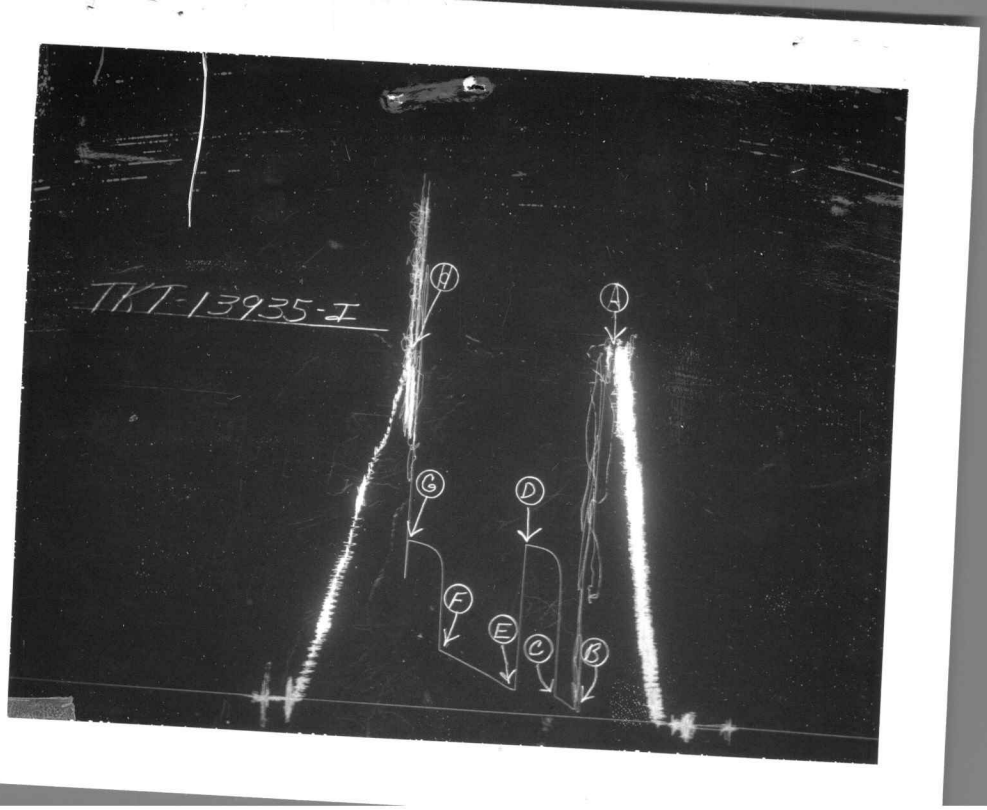
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10-14S-20W

15-051-20661

WESTERN TESTERS

Home Office: Great Bend, Kansas

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

Company Abercrombie Drilling Inc. Lease & Well No. Gottshalk #1

Elevation 2301 Kelly Bushings Formation Kansas City Effective Pay Ft. Ticket No. 13935

Date 8-10-70 Sec. 10 Twp. 14S Range 20W County Ellis State Kansas

Test Approved by Jack K. Wharton Western Representative Don Fisher

Formation Test No. 1 O.K. X Misrun Interval Tested From 3643' to 3703' Total Depth 3703'

Size Main Hole 6 3/4" Rat Hole Conv. X B.T. Damaged Yes X No Conv. X B.T. Damaged Yes X No

Packer Depth 3638 Ft. Size 5 1/2" Packer Depth 3643 Ft. Size 6"

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

Packer Depth Ft. Size

Tool Size 4 1/2" O.D. Tool Jt. Size 3 1/2" I.F. Anchor Length 60 Ft. Size 4 1/2" O.D.

RECORDERS Depth 3693 Ft. Clock No. 6895 Depth 3696 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 9:38 A.M

Tool Open I.F.P. From 9:39 M. to 9:54 A.M. Hr. 15 Min. From (B) 54 P.S.I. To (C) 108 P.S.I.

Tool Closed I.C.I.P. From 9:54 M. to 10:24A.M. Hr. 30 Min. (D) 958 P.S.I.

Tool Open F.F.P. From 10:24 M. to 11:24A.M. 1 Hr. Min. From (E) 145 P.S.I. To (F) 328 P.S.I.

Tool Closed F.C.I.P. From 11:24 M. to 11:54A.M. Hr. 30 Min. (G) 934 P.S.I.

Initial Hydrostatic Pressure (A) 2041 P.S.I. Final Hydrostatic Pressure (H) 2017 P.S.I.

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

BLOW Strong Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 600 feet muddy water

Reversed Out Yes X No Mud Type Starch Viscosity 42 Weight 10.2 Water Loss 12.4 cc. Maximum Temp. 115 °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 1879 ft. I.D. Drill Pipe 2.5 in. Length Weight Pipe 1714 ft. I.D. Weight Pipe 2.5 in. Length Drill Collars 3016 ft.

I. D. Drill Collars 2.5 in. Length D.S.T. Tool 80 ft.

Remarks

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 8-10-70 Test Ticket No. 13935

Recorder No. 2606 Capacity 4150 Location 3693 Ft.

Clock No. 6895 Elevation 2301 Kelly Bushings Well Temperature 115 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2041 P.S.I.		Open Tool	9:38 A. M	
B	First Initial Flow Pressure	54 P.S.I.		First Flow Pressure	15 Mins.	15 Mins.
C	First Final Flow Pressure	108 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	958 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	145 P.S.I.		Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	328 P.S.I.				
G	Final Closed-in Pressure	934 P.S.I.				
H	Final Hydrostatic Mud	2017 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc.
of 5 mins. and a
final inc. of 1 Min.

Point Mins.	Press.
P 1 0	54
P 2 5	62
P 3 10	81
P 4 15	97
P 5 16	108
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.

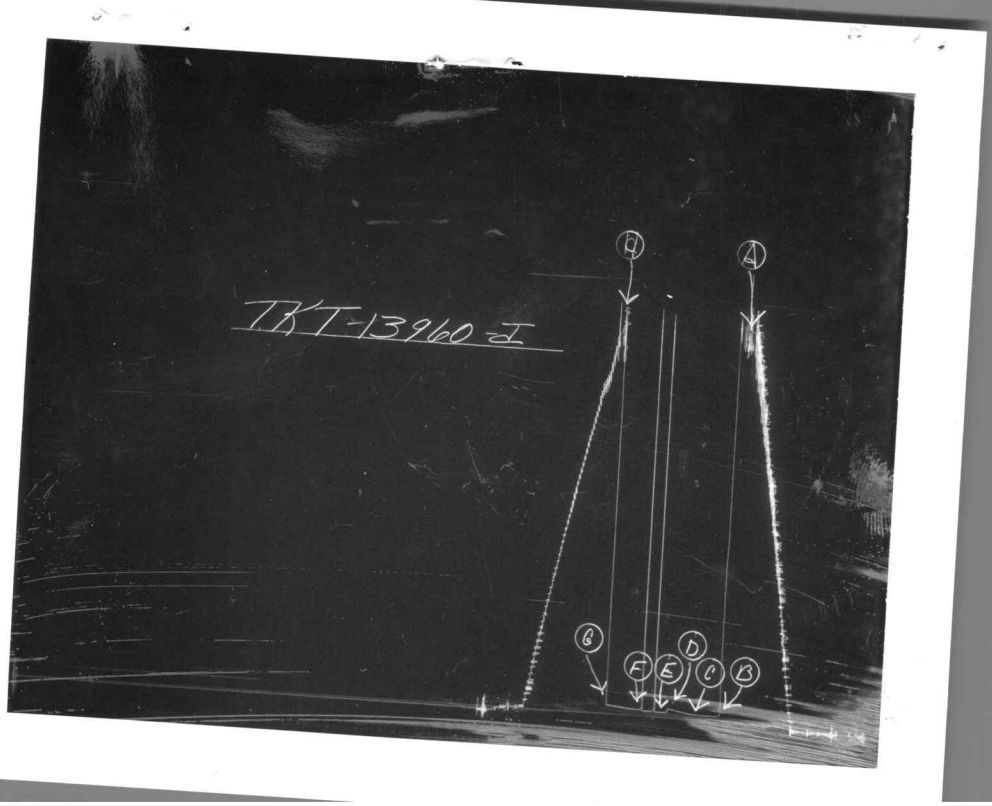
Point Minutes	Press.
0	108
3	802
6	879
9	910
12	927
15	937
18	943
21	950
24	953
27	956
30	958

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

Point Minutes	Press.
0	145
5	149
10	166
15	178
20	197
25	214
30	232
35	249
40	266
45	280
50	295
55	312
60	328

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

Point Minutes	Press.
0	328
3	848
6	877
9	896
12	908
15	916
18	921
21	927
24	929
27	933
30	934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10-14S-20W

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

Company Abercrombie Drilling Inc. Lease & Well No. Gottshalk #1

Elevation 2301 Kelly Bushings Formation Kansas City Effective Pay _____ Ft. Ticket No. 13960

Date 8-11-70 Sec. 10 Twp. 14S Range 20W County Ellis State Kansas

Test Approved by Jack K. Wharton Western Representative Don Fisher

Formation Test No. 2 O.K. X Misrun _____ Interval Tested From 3700' to 3745' Total Depth 3745'

Size Main Hole 6 3/4" Rat Hole _____ Conv. X B.T. _____ Damaged _____ Yes X No Conv. X B.T. _____ Damaged _____ Yes X No

Packer Depth 3695 Ft. Size 5 1/2" Packer Depth 3700 Ft. Size 6"

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

Packer Depth _____ Ft. Size _____

Tool Size 4 1/2" O.D. Tool Jt. Size 3 1/2" I.F. Anchor Length 45 Ft. Size 4 1/2" O.D.

RECORDERS Depth 3737 Ft. Clock No. 8475 Depth 3740 Ft. Clock No. 6806

Top Make Amerada Cap. 4000 No. 3351 Inside Outside Bottom Make Amerada Cap. 4150 No. 2604 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 12:39 A. M

Tool Open I.F.P. From 12:40 M. to 12:50A M. Hr. 10 Min. From (B) 24 P.S.I. To (C) 24 P.S.I.

Tool Closed I.C.I.P. From 12:50 M. to 1:20A. M. Hr. 30 Min. (D) 51 P.S.I.

Tool Open F.F.P. From 1:20 M. to 1:40A. M. Hr. 20 Min. From (E) 28 P.S.I. To (F) 29 P.S.I.

Tool Closed F.C.I.P. From 1:40 M. to 2:10A. M. Hr. 30 Min. (G) 41 P.S.I.

Initial Hydrostatic Pressure (A) 2079 P.S.I. Final Hydrostatic Pressure (H) 2030 P.S.I.

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

BLOW None Bottom Choke Size 3/4 In.

Did Well Flow _____ Yes X No Recovery Total Ft. 12 feet mud

Reversed Out _____ Yes X No Mud Type Starch Viscosity 42 Weight 10.1 Water Loss 12.5 cc. Maximum Temp. 116 °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 1683 ft. I.D. Drill Pipe 2.5 in. Length Weight Pipe 1997 ft. I.D. Weight Pipe 2.5 in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D.S.T. Tool 65 ft.

Remarks Flushed tool at 1:30 & 1:40

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 8-11-70 Test Ticket No. 13960

Recorder No. 3351 Capacity 4000 Location 3737 Ft.

Clock No. 8475 Elevation 2301 Kelly Bushings Well Temperature 116 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2079 P.S.I.	Open Tool	12:39 A. M	
B First Initial Flow Pressure	24 P.S.I.	First Flow Pressure	10 Mins.	10 Mins.
C First Final Flow Pressure	24 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	51 P.S.I.	Second Flow Pressure	20 Mins.	20 Mins.
E Second Initial Flow Pressure	28 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	29 P.S.I.			
G Final Closed-in Pressure	41 P.S.I.			
H Final Hydrostatic Mud	2030 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 2 Inc.
of 5 mins. and a
final inc. of _____ Min.

Point Mins.	Press.
P 1 0	24
P 2 5	24
P 3 10	24
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 _____ Min.

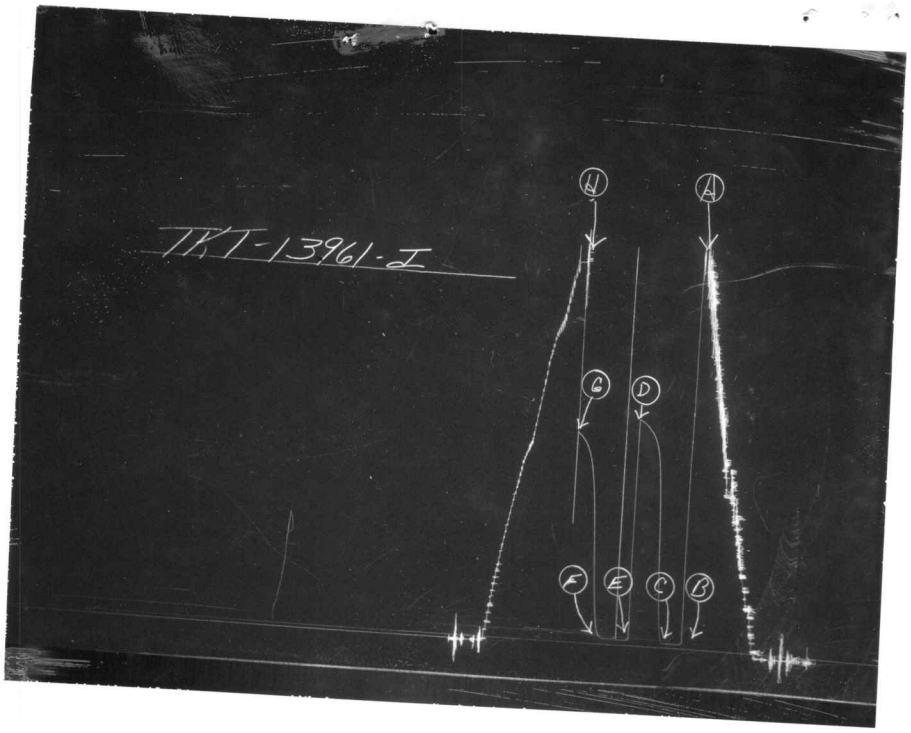
Point Minutes	Press.
0	24
3	25
6	26
9	27
12	28
15	31
18	34
21	39
24	43
27	48
30	51

Second Flow Pressure
Breakdown: 4 Inc.
of 5 mins. and a
final inc. of _____ Min.

Point Minutes	Press.
0	28
5	28
10	28
15	29
20	29

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

Point Minutes	Press.
0	29
3	32
6	32
9	33
12	34
15	35
18	36
21	37
24	38
27	40
30	41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10-145-20W

WESTERN TESTERS

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

Company Abercrombie Drilling Inc. Lease & Well No. Gottshalk #1

Elevation 2301 Kelly Bushings Formation Kansas City Effective Pay Ft. Ticket No. 13961

Date 8-11-70 Sec. 10 Twp. 14S Range 20W County Ellis State Kansas

Test Approved by Jack K. Wharton Western Representative Don Fisher

Formation Test No. 3 O.K. X Misrun Interval Tested From 3750' to 3790' Total Depth 3790'

Size Main Hole 6 3/4" Rat Hole Conv. X B.T. Damaged Yes X No Conv. X B.T. Damaged Yes X No

Packer Depth 3745 Ft. Size 5 1/2" Packer Depth 3750 Ft. Size 6"

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

Packer Depth Ft. Size

Tool Size 4 1/2" O.D. Tool Jt. Size 3 1/2" I.F. Anchor Length 40 Ft. Size 4 1/2" O.D.

RECORDERS Depth 3782 Ft. Clock No. 8475 Depth 3785 Ft. Clock No. 6806

Top Make Amerada Cap. 4000 No. 3351 Inside Outside Bottom Make Amerada Cap. 4150 No. 2604 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 4:25 P M

Tool Open I.F.P. From 4:26 M. to 4:39 P M. Hr. 13 Min. From (B) 76 P.S.I. To (C) 61 P.S.I.

Tool Closed I.C.I.P. From 4:39 M. to 5:09P. M. Hr. 30 Min. (D) 1179 P.S.I.

Tool Open F.F.P. From 5:09 M. to 5:29P. M. Hr. 20 Min. From (E) 76 P.S.I. To (F) 62 P.S.I.

Tool Closed F.C.I.P. From 5:29 M. to 5:59P. M. Hr. 30 Min. (G) 1086 P.S.I.

Initial Hydrostatic Pressure (A) 1971 P.S.I. Final Hydrostatic Pressure (H) 1940 P.S.I.

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

BLOW Weak for 13 minutes of initial flow than stopped Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 15 feet muddy water

Reversed Out Yes X No Mud Type Starch Viscosity 40 Weight 10.0 Water Loss 10.0 cc. Maximum Temp. 115 °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 1683 ft. I.D. Drill Pipe 2.5 in. Length Weight Pipe 2047 ft. I.D. Weight Pipe 2.5 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 60 ft.

Remarks Flushed 10 minutes on final flow pressure

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 8-11-70 Test Ticket No. 13961

Recorder No. 3351 Capacity 4000 Location 3782 Ft.

Clock No. 8475 Elevation 2301 Kelly Bushings Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1971 P.S.I.	Open Tool	4:25 P. M	
B First Initial Flow Pressure	76 P.S.I.	First Flow Pressure	13 Mins.	14 Mins.
C First Final Flow Pressure	61 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1179 P.S.I.	Second Flow Pressure	20 Mins.	20 Mins.
E Second Initial Flow Pressure	76 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	62 P.S.I.			
G Final Closed-in Pressure	1086 P.S.I.			
H Final Hydrostatic Mud	1940 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 2 Inc.
of 5 mins. and a
final inc. of 4 Min.

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

Second Flow Pressure
Breakdown: 4 Inc.
of 5 mins. and a
final inc. of ____ Min.

Final Shut-In
Breakdown: 10 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	76	0	61	0	76	0	62
P 2 5	62	3	158	5	71	3	96
P 3 10	61	6	457	10	71	6	206
P 4 14	61	9	798	15	63	9	446
P 5		12	992	20	62	12	734
P 6		15	1076			15	882
P 7		18	1116			18	976
P 8		21	1142			21	1024
P 9		24	1160			24	1052
P10		27	1174			27	1073
P11		30	1179			30	1086
P12							
P13							
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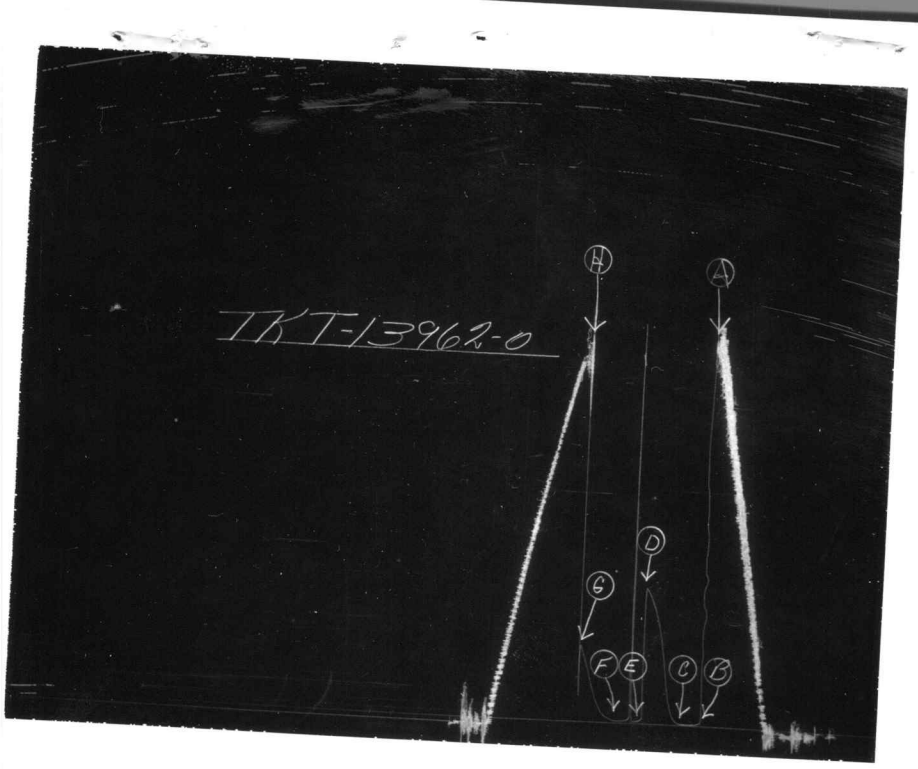
P15							
P16							
P17							
P18							
P19							
P20							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10-14S-20W

WESTERN TESTERS

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

Company Abercrombie Drilling Inc. Lease & Well No. Gottshalk #1

Elevation 2301 Kelly Bushings Formation Arbuckle Effective Pay Ft. Ticket No. 13962

Date 8-13-70 Sec. 10 Twp. 14S Range 20W County Ellis State Kansas

Test Approved by Jack K. Wharton Western Representative Don Fisher

Formation Test No. 4 O.K. X Misrun Interval Tested From 3900' to 3942' Total Depth 3942'

Size Main Hole 6 3/4" Rat Hole Conv. X B.T. Damaged Yes No Conv. X B.T. Damaged Yes No

Packer Depth 3895 Ft. Size 5 1/2" Packer Depth 3900 Ft. Size 6"

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

Packer Depth Ft. Size

Tool Size 4 1/2" O.D. Tool Jt. Size 3 1/2" I.F. Anchor Length 42 Ft. Size 4 1/2" O.D.

RECORDERS Depth 3934 Ft. Clock No. 8475 Depth 3937 Ft. Clock No. 6806

Top Make Amerada Cap. 4000 No. 3351 Inside Outside Bottom Make Amerada Cap. 4150 No. 2604 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 3:40 A.M

Tool Open I.F.P. From 3:41 M. to 3:56A. M. Hr. 15 Min. From (B) 14 P.S.I. To (C) 14 P.S.I.

Tool Closed I.C.I.P. From 3:56 M. to 4:26A. M. Hr. 30 Min. (D) 780 P.S.I.

Tool Open F.F.P. From 4:26 M. to 4:46A. M. Hr. 20 Min. From (E) 18 P.S.I. To (F) 19 P.S.I.

Tool Closed F.C.I.P. From 4:46 M. to 5:16A. M. Hr. 30 Min. (G) 440 P.S.I.

Initial Hydrostatic Pressure (A) 2054 P.S.I. Final Hydrostatic Pressure (H) 2047 P.S.I.

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

BLOW Weak Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 20 feet mud

Reversed Out Yes X No Mud Type Starch Viscosity 38 Weight 9.9 Water Loss 10.1 cc. Maximum Temp. 118 °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 1683 ft. I.D. Drill Pipe 2.5 in. Length Weight Pipe 2197 ft. I.D. Weight Pipe 2.5 in. Length Drill Collars ft.

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

Remarks Flushed tool at 4:36

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 8-13-70 Test Ticket No. 13962

Recorder No. 3351 Capacity 4000 Location 3934 Ft.

Clock No. 8475 Elevation 2301 Kelly Bushings Well Temperature 118 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2054 P.S.I.		Open Tool	3:40 A.M	
B	First Initial Flow Pressure	14 P.S.I.		First Flow Pressure	15 Mins.	15 Mins.
C	First Final Flow Pressure	14 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	780 P.S.I.		Second Flow Pressure	20 Mins.	20 Mins.
E	Second Initial Flow Pressure	18 P.S.I.		Final Closed-in Pressure	30 Mins.	29 Mins.
F	Second Final Flow Pressure	19 P.S.I.				
G	Final Closed-in Pressure	440 P.S.I.				
H	Final Hydrostatic Mud	2047 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	14
P 2 5	14
P 3 10	14
P 4 15	14
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.

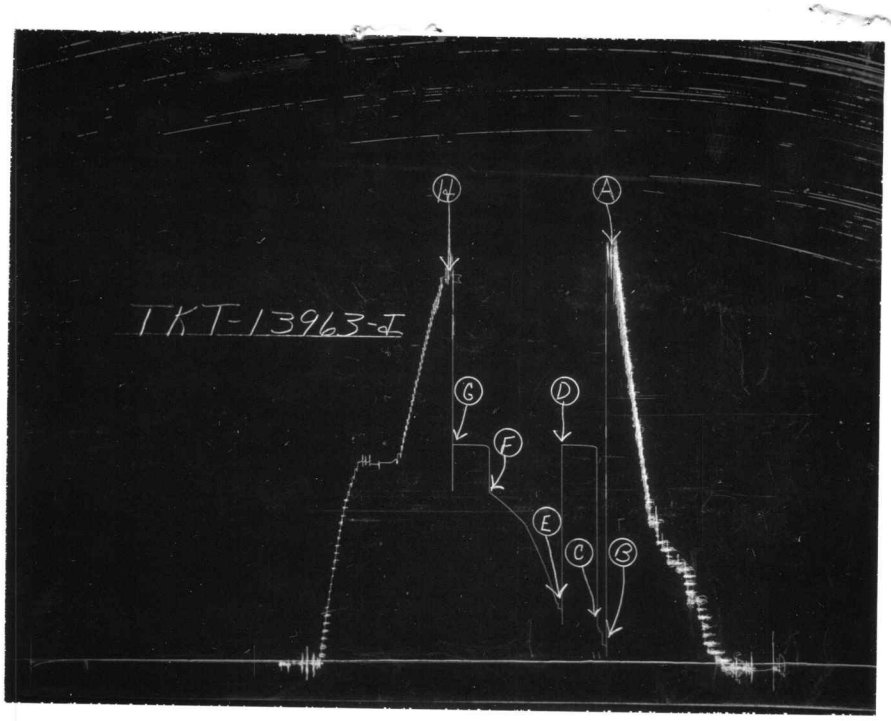
Point Minutes	Press.
0	14
3	26
6	64
9	160
12	326
15	474
18	584
21	664
24	730
27	758
30	780

Second Flow Pressure
Breakdown: 4 Inc.
of 5 mins. and a
final inc. of ____ Min.

Point Minutes	Press.
0	18
5	18
10	19
15	19
20	19

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

Point Minutes	Press.
0	19
3	22
6	27
9	42
12	62
15	102
18	166
21	254
24	336
27	410
29	440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10-145-20?

WESTERN TESTERS

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

Company Abercrombie Drilling Inc. Lease & Well No. Gottshalk #1

Elevation 2301 Kelly Bushings Formation Reagan Sand Effective Pay Ft. Ticket No. 13963

Date 8-13-70 Sec. 10 Twp. 14S Range 20W County Ellis State Kansas

Test Approved by Jack K. Wharton Western Representative Don Fisher

Formation Test No. 5 O.K. X Misrun Interval Tested From 3941' to 3949' Total Depth 3949'

Size Main Hole 6 3/4" Rat Hole Conv. X B.T. Damaged Yes X No Conv. X B.T. Damaged Yes X No

Packer Depth 3936 Ft. Size 5 1/2" Packer Depth 3941 Ft. Size 6"

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

Packer Depth Ft. Size

Tool Size 4 1/2" O.D. Tool Jt. Size 3 1/2" I.F. Anchor Length 8 Ft. Size 4 1/2" O.D.

RECORDERS Depth 3934 Ft. Clock No. 8475 Depth 3944 Ft. Clock No. 6806

Top Make Amerada Cap. 4000 No. 3351 Inside Outside Bottom Make Amerada Cap. 4150 No. 2604 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 10:30 P.M.

Tool Open I.F.P. From 10:31 M. to 10:36P M. Hr. 5 Min. From (B) 29 P.S.I. To (C) 160 P.S.I.

Tool Closed I.C.I.P. From 10:36 M. to 11:06P M. Hr. 30 Min. (D) 1154 P.S.I.

Tool Open F.F.P. From 11:06 M. to 12:06A. M. 1 Hr. Min. From (E) 278 P.S.I. To (F) 898 P.S.I.

Tool Closed F.C.I.P. From 12:06 M. to 12:36A M. Hr. 30 Min. (G) 1153 P.S.I.

Initial Hydrostatic Pressure (A) 2118 P.S.I. Final Hydrostatic Pressure (H) 2090 P.S.I.

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

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

Did Well Flow Yes X No Recovery Total Ft. 2070 Salt water

Reversed Out X Yes No Mud Type Starch Viscosity 41 Weight 10.0 Water Loss 10.6 cc. Maximum Temp. 125 °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 1683 ft. I.D. Drill Pipe 2.5 in. Length Weight Pipe 2235 ft. I.D. Weight Pipe 2.5 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 31 ft.

Remarks Slid 2 feet

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 8-13-70 Test Ticket No. 13963

Recorder No. 3351 Capacity 4000 Location 3934 Ft.

Clock No. 8475 Elevation 2301 Kelly Bushings Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2118 P.S.I.	Open Tool	10:30 P.M	
B First Initial Flow Pressure	29 P.S.I.	First Flow Pressure	5 Mins.	5 Mins.
C First Final Flow Pressure	160 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1154 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	278 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	898 P.S.I.			
G Final Closed-in Pressure	1153 P.S.I.			
H Final Hydrostatic Mud	2090 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	29
P 2 5	160
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 _____ Min.

Point Minutes	Press.
0	160
3	708
6	1149
9	1150
12	1151
15	1152
18	1153
21	1154
24	1154
27	1154
30	1154

Second Flow Pressure
Breakdown: 11 Inc.
of 5 mins. and a
final inc. of 1 Min.

Point Minutes	Press.
0	278
5	326
10	433
15	526
20	610
25	682
30	744
35	776
40	810
45	840
50	868
55	893
56	898

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

Point Minutes	Press.
0	898
3	1146
6	1148
9	1148
12	1149
15	1150
18	1151
21	1152
24	1152
27	1153
30	1153