Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Texas Oil & Gas Corp. Lease & Well No. Clark C-#1

Elevation 2119 Kelly Bushing Formation Cherokee Effective Pay - Ft. Ticket No. 25686

Date 5-19-77 Sec. 12 Twp. 27S Range 17W County Kiowa State Kansas

Test Approved by K.W. Dahlberg Western Representative Lonnie J. Cline

Formation Test No. 1 O.K. X Misrun - Interval Tested From 4587' to 4614' Total Depth 4614'

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

Top Packer Depth 4576 Ft. Size 6 3/4 Bottom Packer Depth 4587 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½ OD Tool Joint Size 4½ OD Anchor Length 27 Ft. Size 5½ OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4606 Ft. Clock No. 4763 Depth 4609 Ft. Clock No. 9726

Top Make Kuster Cap. 4150 No. 2604 ~~Outside~~ Inside Bottom Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside

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

Time Set Packer 1:50 A M

Tool Open I.F.P. From 1:51 A M. to 2:21 A M. - Hr. 30 Min. From (B) 36 P.S.I. To (C) 37 P.S.I.

Tool Closed I.C.I.P. From 2:21 A M. to 3:21 A M. 1 Hr. - Min (D) 76 P.S.I.

Tool Open F.F.P. From 3:21 A M. to 3:36 A M. - Hr. 15 Min. From (E) 40 P.S.I. To (F) 39 P.S.I.

Tool Closed F.C.I.P. From 3:36 A M. to 4:06 A M. - Hr. 30 Min. (G) 48 P.S.I.

Initial Hydrostatic Pressure (A) 2244 P.S.I. Final Hydrostatic Pressure (H) 2232 P.S.I. Maximum Temp. 124

INFORMATION

BLOW Poor blow, died in 26 minutes on initial flow period.

Did Well Flow - Yes X No Recovery Total Ft. 12' drilling mud.

Reversed Out - Yes X No Mud Type premix Viscosity 48 Weight 9.3 Water Loss 8.4 cc. Chlorides 18,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint yes Jars: Size 3½ IF In. Make WTC Ser. No. 403

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR H-30 Drlg. Co. Length Drill Pipe? 4301 Ft. I.D. Drill Pipe 3.9 In. Tool Joint Size 4½ XH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 249 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4½ H90 In. Length D.S.T. Tool 64 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 5-19-77 Test Ticket No. 25686

Recorder No. 2604 Capacity 4150 Location 4606 Ft.

Clock No. 4763 Elevation 2119 Kelly Bushing Well Temperature 124 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2244	P.S.I.
B	First Initial Flow Pressure	36	P.S.I.
C	First Final Flow Pressure	37	P.S.I.
D	Initial Closed-in Pressure	76	P.S.I.
E	Second Initial Flow Pressure	40	P.S.I.
F	Second Final Flow Pressure	39	P.S.I.
G	Final Closed-in Pressure	48	P.S.I.
H	Final Hydrostatic Mud	2232	P.S.I.

	Time Given	Time Computed
Open Tool	1:50 A_M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	60 Mins.	60 Mins.
Second Flow Pressure	15 Mins.	15 Mins.
Final Closed-in Pressure	30 Mins.	30 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	36
P 2 5	36
P 3 10	36
P 4 15	37
P 5 20	37
P 6 25	37
P 7 30	37
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

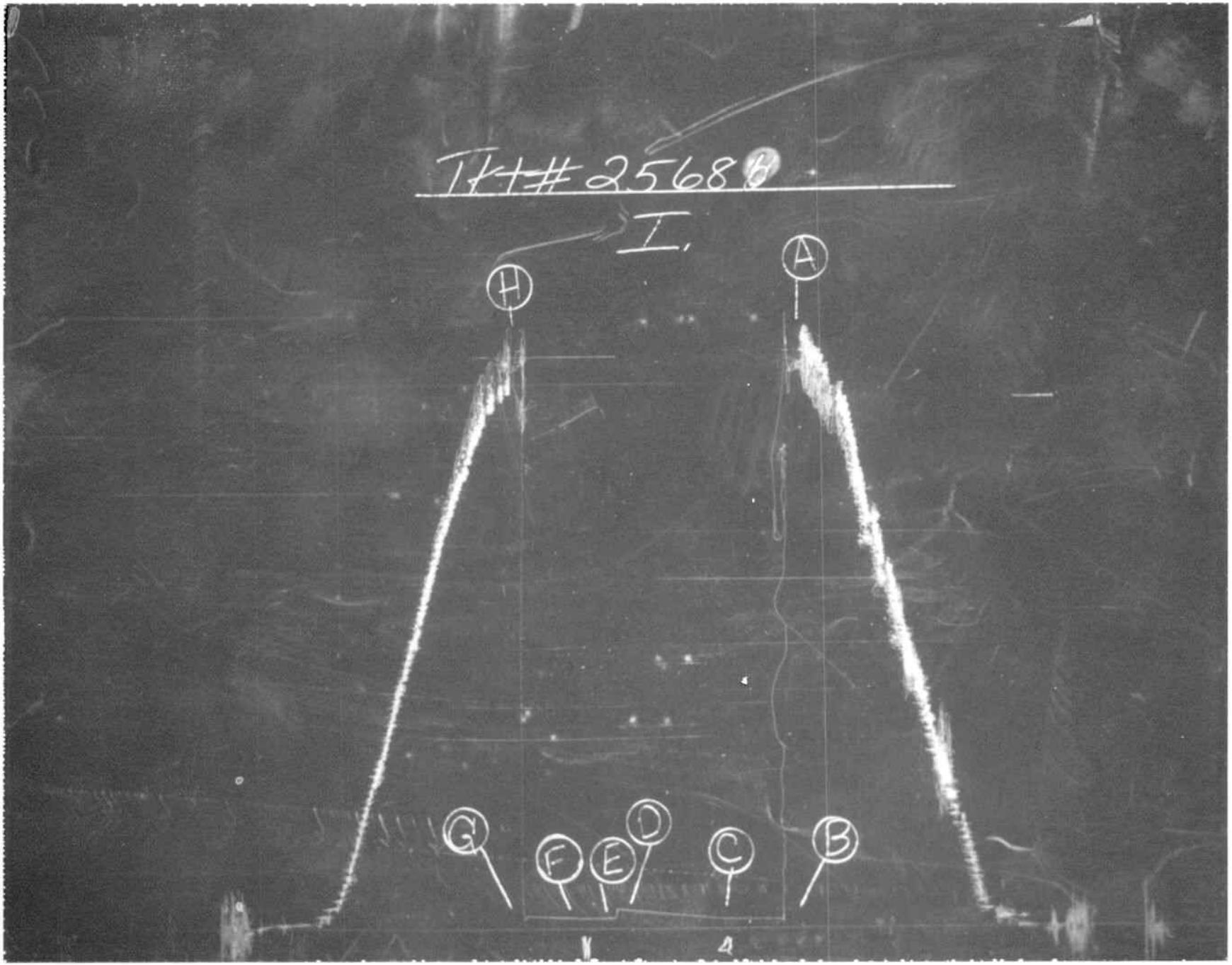
Point Minutes	Press.
0	37
3	38
6	40
9	41
12	42
15	46
18	48
21	50
24	51
27	54
30	55
33	58
36	60
39	62
42	64
45	66
48	68
51	70
54	71
57	73
60	76

Second Flow Pressure
Breakdown: 3 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	40
5	39
10	39
15	39

Final Shut-In
Breakdown: 6 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	39
3	39
6	40
9	41
12	43
15	44
18	44
21	45
24	46
27	47
30	48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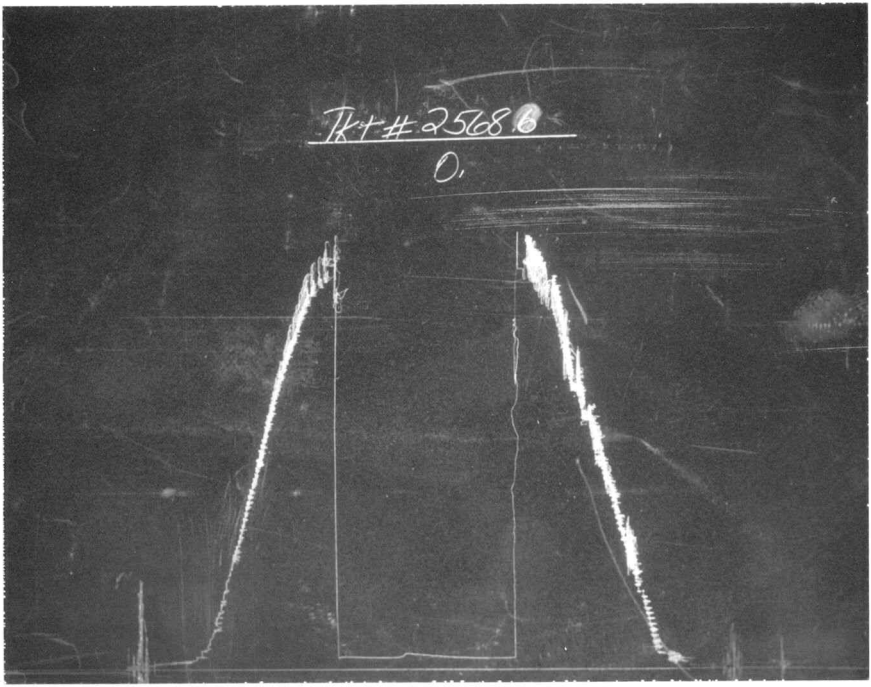
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WESTERN TESTERS

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Texas Oil & Gas Corp. Lease & Well No. Clark C-#1

Elevation 2119 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 25687

Date 5-20-77 Sec. 12 Twp. 27S Range 17W County Kiowa State Kansas

Test Approved by K.W. Dahlberg Western Representative Lonnie J. Cline

Formation Test No. 2 O.K. X Misrun - Interval Tested From 4591' to 4640' Total Depth 4640'

Size Main Hole 77/8 Rat Hole - Conv. X B.T. - Damaged - Yes X No Conv. - B.T. X Damaged - Yes X No

Top Packer Depth 4580 Ft. Size 6 3/4 Bottom Packer Depth 4591 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½ OD Tool Joint Size 4½ FH Anchor Length 49 Ft. Size 5½ OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4632 Ft. Clock No. 4763 Depth 4635 Ft. Clock No. 9726

Top Make Kuster Cap. 4150 No. 2604 ~~Outside~~ Inside Bottom Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside

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

Time Set Packer 9:54 P M

Tool Open I.F.P. From 9:55 P M. to 10:20 M. - Hr. 25 Min. From (B) 165 P.S.I. To (C) 175 P.S.I.

Tool Closed I.C.I.P. From 10:20 M. to 11:10 M. - Hr. 50 Min (D) 1180 P.S.I.

Tool Open F.F.P. From 11:10P M. to 11:30P M. - Hr. 20 Min. From (E) 173 P.S.I. To (F) 181 P.S.I.

Tool Closed F.C.I.P. From 11:30 M. to 12:00A M. - Hr. 30 Min. (G) 941 P.S.I.

Initial Hydrostatic Pressure (A) 2272 P.S.I. Final Hydrostatic Pressure (H) 2221 P.S.I. Maximum Temp. 134

INFORMATION

BLOW Poor blow, died in 15 minutes on initial flow period.

Did Well Flow - Yes X No Recovery Total Ft. 250' drilling mud.

Reversed Out - Yes X No Mud Type premix Viscosity 80 Weight 9.3 Water Loss 9.6 cc. Chlorides 17,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint yes Jars: Size 3½ IF In. Make WTC Ser. No. 403

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR H-30 Drlg. Co. Length Drill Pipe? 4336 Ft. I.D. Drill Pipe 3.9 In. Tool Joint Size 4½ XH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 249 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4½H90 In. Length D.S.T. Tool 55 Ft.

Remarks: Packers didn't hold on first try, held on second.

WESTERN TESTING CO., INC.
Pressure Data

Date 5-20-77 Test Ticket No. 25687

Recorder No. 2604 Capacity 4150 Location 4632 Ft.

Clock No. 4763 Elevation 2119 Kelly Bushing Well Temperature 134 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2272	P.S.I.	Open Tool	9:54 PM	
B	First Initial Flow Pressure	165	P.S.I.	First Flow Pressure	25 Mins.	25 Mins.
C	First Final Flow Pressure	175	P.S.I.	Initial Closed-in Pressure	50 Mins.	51 Mins.
D	Initial Closed-in Pressure	1180	P.S.I.	Second Flow Pressure	20 Mins.	15 Mins.
E	Second Initial Flow Pressure	173	P.S.I.	Final Closed-in Pressure	30 Mins.	33 Mins.
F	Second Final Flow Pressure	181	P.S.I.			
G	Final Closed-in Pressure	941	P.S.I.			
H	Final Hydrostatic Mud	2221	P.S.I.			

PRESSURE BREAKDOWN

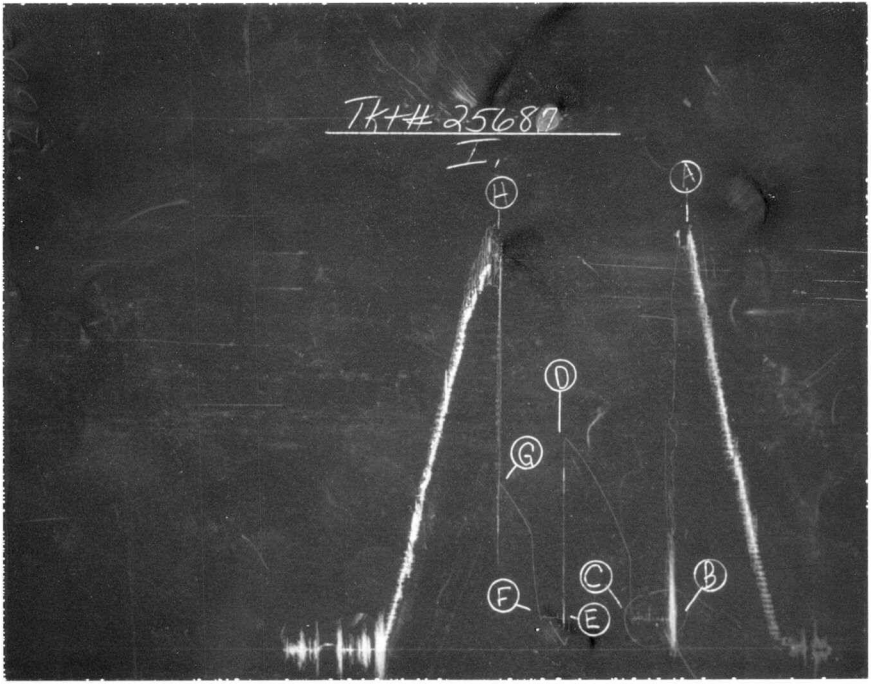
First Flow Pressure
Breakdown: 5 Inc. of 5 mins. and a final inc. of 0 Min.

Initial Shut-In
Breakdown: 17 Inc. of 3 mins. and a final inc. of 0 Min.

Second Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Final Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

Point	First Flow Pressure Mins.	First Flow Pressure Press.	Initial Shut-In Point Minutes	Initial Shut-In Press.	Second Flow Pressure Point Minutes	Second Flow Pressure Press.	Final Shut-In Point Minutes	Final Shut-In Press.
P 1	0	165	0	175	0	173	0	181
P 2	5	165	3	558	5	178	3	305
P 3	10	169	6	613	10	179	6	502
P 4	15	169	9	667	15	181	9	676
P 5	20	168	12	715			12	716
P 6	25	175	15	763			15	755
P 7			18	809			18	788
P 8			21	853			21	822
P 9			24	895			24	853
P10			27	933			27	885
P11			30	975			30	914
P12			33	1008			33	941
P13			36	1044				
P14			39	1075				
P15			42	1105				
P16			45	1130				
P17			48	1157				
P18			51	1180				
P19								
P20								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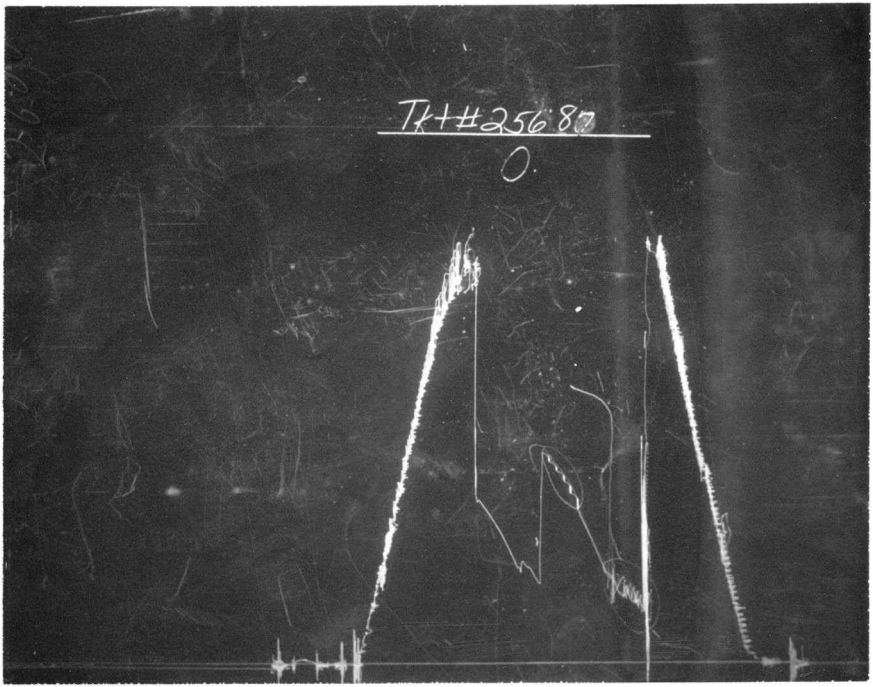
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Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Texas Oil & Gas Corp. Lease & Well No. Clark "C" #1

Elevation 2119 Kelly Bush. Formation - Effective Pay - Ft. Ticket No. 24614

Date 5-22-77 Sec. 12 Twp. 27S Range 17W County Kiowa State Kansas

Test Approved by K.W. Dahlberg Western Representative Bill Baker

Formation Test No. 3 O.K. X Misrun - Interval Tested From 4585' to 4648' Total Depth 4710'

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 4580 Ft. Size 6 3/4 Bottom Packer Depth 4585 Ft. Size 6 3/4

Straddle Yes Conv. X B.T. - Damaged - Yes X No Packer Depth 4648 Ft. Size 6 3/4

Tool Size 5pOD Tool Joint Size 4½ FH Anchor Length 63 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4637 Ft. Clock No. 10167 Depth 4640 Ft. Clock No. 8376

Top Make Kuster Cap. 4500 No. 3085 ~~Outside~~ Inside Bottom Make Kuster Cap. 3200 No. 1561 ~~Inside~~ Outside

Below Straddle: Depth 4663 Rec. No. 2500 Clock No. 23 ~~Outside~~ Inside Depth 4667 Ft. Rec. No. 2900 Clock No. 45 ~~Inside~~ Outside

Time Set Packer 8:28A. M

Tool Open I.F.P. From 8:30A M. to 8:55A M. - Hr. 25 Min. From (B) 22 P.S.I. To (C) 41 P.S.I.

Tool Closed I.C.I.P. From 8:55A M. to 9:45A M. - Hr. 50 Min (D) 211 P.S.I.

Tool Open F.F.P. From 9:45A M. to 10:45A M. - Hr. 60 Min. From (E) 55 P.S.I. To (F) 57 P.S.I.

Tool Closed F.C.I.P. From 10:45A M. to 12:45P M. - Hr. 120 Min. (G) 337 P.S.I.

Initial Hydrostatic Pressure (A) 2253 P.S.I. Final Hydrostatic Pressure (H) 2217 P.S.I. Maximum Temp. 135

INFORMATION

BLOW Weak surge for 2 minutes when tool opened, died during initial flow period. Fair increasing blow throughout final flow period.

Did Well Flow - Yes X No Recovery Total Ft. 120' of drilling mud.

Reversed Out - Yes X No Mud Type Drispac Viscosity 40 Weight 9.3 Water Loss 15.6 cc. Chlorides 1700 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer 3 pkr. Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR H-30 Drlg. Length Drill Pipe? 4510 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½XH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 60 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4"H-90 In. Length D.S.T. Tool 140 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 5-22-77 Test Ticket No. 24614

Recorder No. 3085 Capacity 4500 Location 4637 F

Clock No. 10167 Elevation 2119 Kelly Bushing Well Temperature 135 °

Point		Pressure	
A	Initial Hydrostatic Mud	2253	P.S.I.
B	First Initial Flow Pressure	22	P.S.I.
C	First Final Flow Pressure	41	P.S.I.
D	Initial Closed-in Pressure	211	P.S.I.
E	Second Initial Flow Pressure	55	P.S.I.
F	Second Final Flow Pressure	57	P.S.I.
G	Final Closed-in Pressure	337	P.S.I.
H	Final Hydrostatic Mud	2217	P.S.I.

	Time Given	Time Computed
Open Tool	8:28A. M	
First Flow Pressure	25 Mins.	25 Min
Initial Closed-in Pressure	50 Mins.	51 Min
Second Flow Pressure	60 Mins.	60 Min
Final Closed-in Pressure	120 Mins.	117 Min

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	22
P 2 5	24
P 3 10	29
P 4 15	36
P 5 20	38
P 6 25	41
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 17 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	41
3	45
6	51
9	60
12	69
15	76
18	86
21	97
24	108
27	118
30	129
33	140
36	151
39	165
42	177
45	189
48	201
51	211

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

Point Minutes	Press.
0	55
5	54
10	54
15	55
20	55
25	56
30	56
35	57
40	57
45	57
50	57
55	57
60	57

Final Shut-In
Breakdown: 39 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	57
3	62
6	68
9	73
12	76
15	81
18	86
21	93
24	100
27	105
30	111
33	116
36	122
39	127
42	134
45	139
48	144
51	152
54	159
57	165
60	172

Cont'd on next pag

WESTERN TESTING CO., INC.
Pressure Data

Date 5-22-77 Test Ticket No. 24614

Recorder No. 3085 Capacity 4500 Location 4637 Ft.

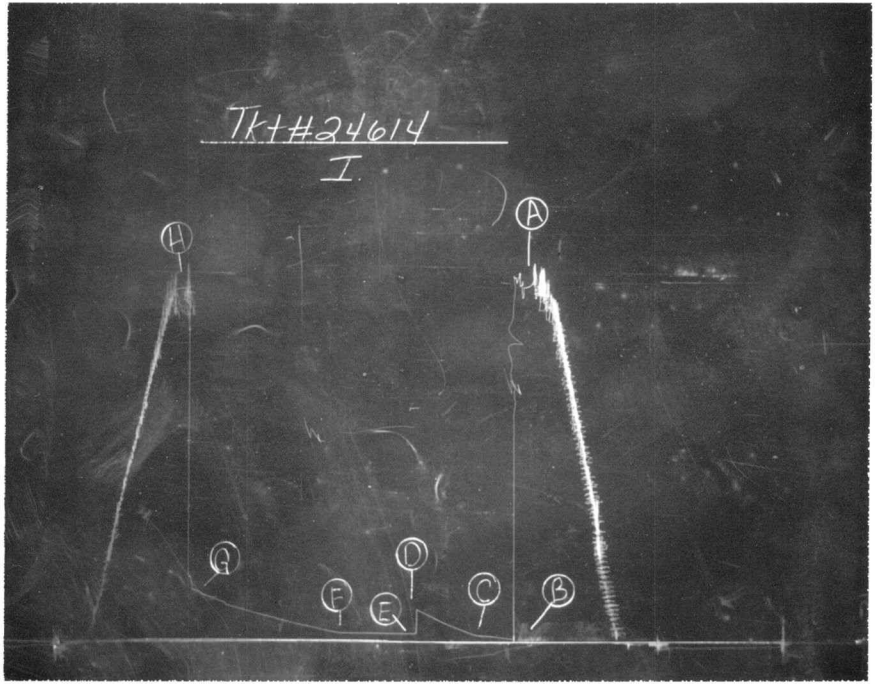
Clock No. 10167 Elevation 2119 Kelly Bushing Well Temperature 135 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2253 P.S.I.	Open Tool	8:28A. M	
B First Initial Flow Pressure	22 P.S.I.	First Flow Pressure	25 Mins.	25 Mins.
C First Final Flow Pressure	41 P.S.I.	Initial Closed-in Pressure	50 Mins.	51 Mins.
D Initial Closed-in Pressure	211 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	55 P.S.I.	Final Closed-in Pressure	120 Mins.	117 Mins.
F Second Final Flow Pressure	57 P.S.I.			
G Final Closed-in Pressure	337 P.S.I.			
H Final Hydrostatic Mud	2217 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: 5 Inc.	Breakdown: 17 Inc.	Breakdown: 12 Inc.	Breakdown: 39 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						63	179
P 2						66	185
P 3						69	191
P 4						72	198
P 5						75	206
P 6						78	213
P 7						81	217
P 8						84	225
P 9						87	232
P10						90	239
P11						93	259
P12						96	268
P13						99	276
P14						102	284
P15						105	294
P16						108	303
P17						111	319
P18						114	328
P19						117	337
P20							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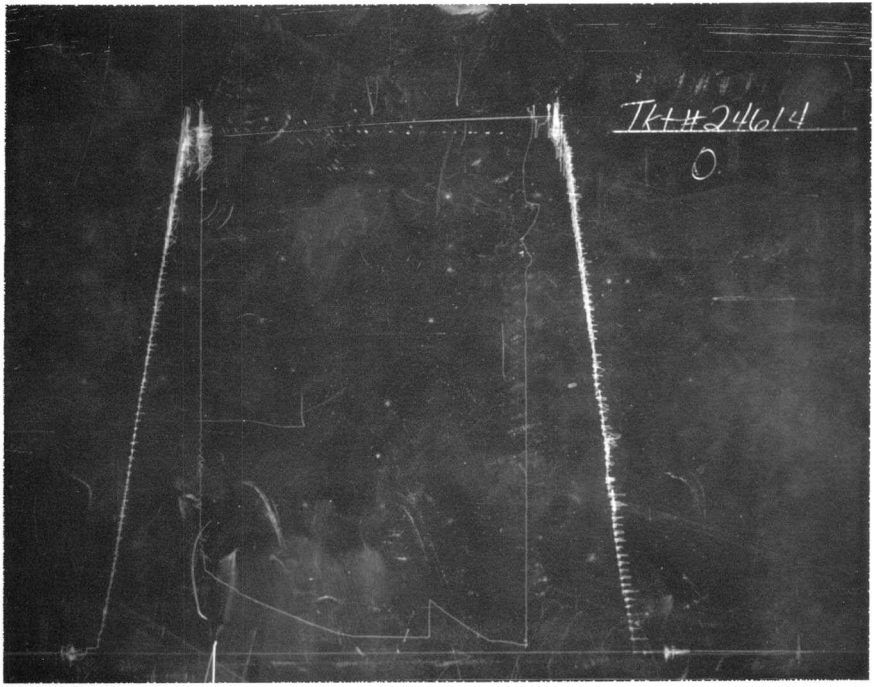
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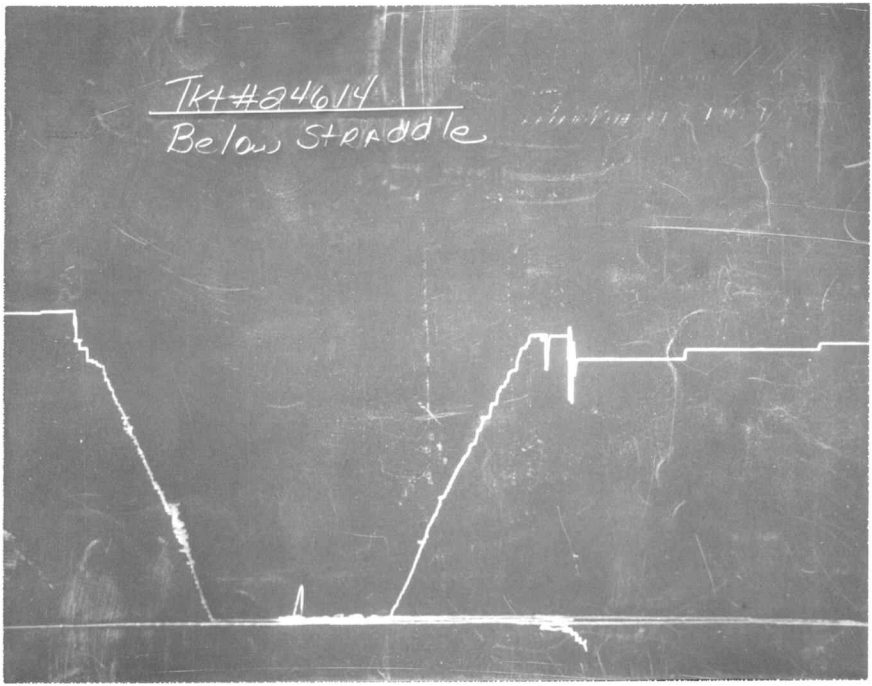
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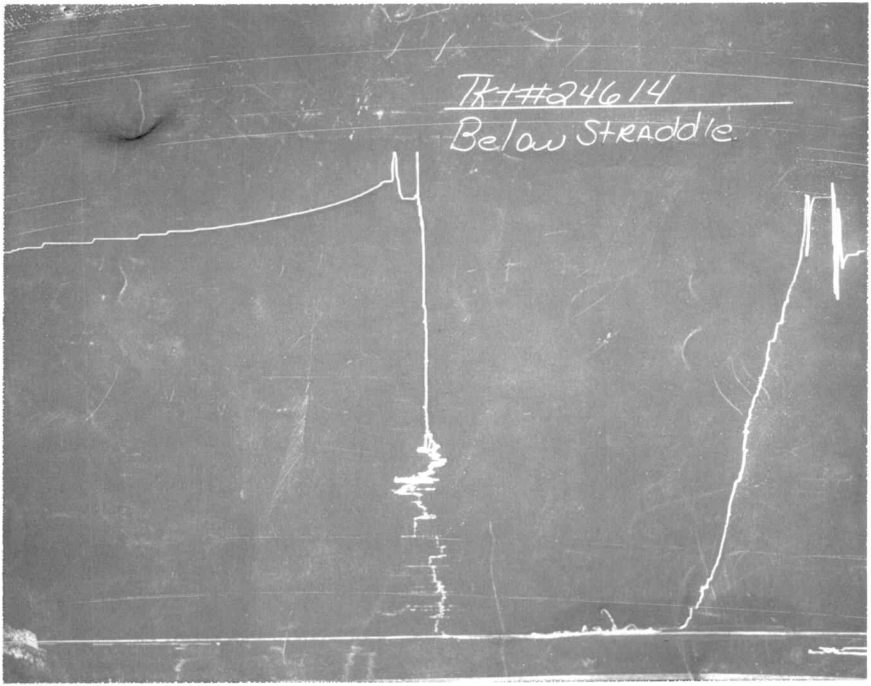
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