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

Company Graves Drilling Co., Inc. & Et al Lease & Well No. Dewey #1

Elevation 1420 Kelly Bush Formation Mississippi Effective Pay - Ft. Ticket No. 25353

Date 10-5-75 Sec. 20 Twp. 28S Range 5W County Kingman State Kansas

Test Approved by Fred Stump Western Representative Forrest Purnell

Formation Test No. 1 O.K. X Misrun - Interval Tested From 3842' to 3864' Total Depth 3864'

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 3837 Ft. Size 6 3/4 Bottom Packer Depth 3842 Ft. Size 6 3/4

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

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 22 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3955 Ft. Clock No. 6800 Inside Outside Depth 3958 Ft. Clock No. 9102 Inside Outside

Top Make Kuster Cap. 4200 No. 1559 Bottom Make Kuster Cap. 3150 No. 1565

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

Time Set Packer 8:12 A. M

Tool Open I.F.P. From 8:15A M. to 8:45A M. - Hr. 30 Min. From (B) 64 P.S.I. To (C) 66 P.S.I.

Tool Closed I.C.I.P. From 8:45A M. to 9:30A M. - Hr. 45 Min (D) 576 P.S.I.

Tool Open F.F.P. From 9:30A M. to 11:00A M. - Hr. 90 Min. From (E) 73 P.S.I. To (F) 85 P.S.I.

Tool Closed F.C.I.P. From 11:00A M. to 11:45A M. - Hr. 45 Min. (G) 812 P.S.I.

Initial Hydrostatic Pressure (A) 1962 P.S.I. Final Hydrostatic Pressure (H) 1886 P.S.I. Maximum Temp. 122

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 16 minutes.

Did Well Flow Gas Yes - No Recovery Total Ft. 210' of gassy drilling mud with show of oil on top of tool.

Reversed Out - Yes X No Mud Type Starch Viscosity 43 Weight 9.5 Water Loss 5.4 cc. Chlorides 70,000 P.P.M.

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

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? Yes Where? Plugging action in anchor

DRILLING CONTRACTOR Graves Drilg. Co., Inc. Length Drill Pipe? 3731 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 90 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4"H-90 In. Length D.S.T. Tool 43 Ft.

Remarks: Slid tool 15' to bottom. See attached sheet for gas readings.

WESTERN TESTING CO., INC.
Pressure Data

Date 10-5-75 Test Ticket No. 25353

Recorder No. 1559 Capacity 4200 Location 3955 Ft.

Clock No. 6800 Elevation 1420 Kelly Bushing Well Temperature 122 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1962	P.S.I.	Open Tool	8:12 A. M.	
B	First Initial Flow Pressure	64	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	66	P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D	Initial Closed-in Pressure	576	P.S.I.	Second Flow Pressure	90 Mins.	85 Mins.
E	Second Initial Flow Pressure	73	P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F	Second Final Flow Pressure	85	P.S.I.			
G	Final Closed-in Pressure	812	P.S.I.			
H	Final Hydrostatic Mud	1886	P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	64
P 2 5	64
P 3 10	65
P 4 15	65
P 5 20	66
P 6 25	66
P 7 30	66
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	66
3	351
6	468
9	520
12	547
15	562
18	572
21	574
24	576
27	576
30	576
33	576
36	576
39	576
42	576
45	576

Second Flow Pressure
Breakdown: 17 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	73
5	73
10	73
15	73
20	73
25	73
30	73
35	75
40	75
45	75
50	75
55	79
60	79
65	79
70	79
75	81
80	81
85	85

Final Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	85
3	380
6	506
9	585
12	651
15	678
18	710
21	730
24	745
27	762
30	774
33	784
36	791
39	797
42	803
45	812

Phone 316 262-5861
316 838-0601

WESTERN TESTERS

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 10-5-75 Ticket 25353 Company Graves Drilling Co., Inc. & Et al

Well Name and No. Dewey #1 Dst No. 1 Interval Tested 3842' - 3864'

County Kingman State Kansas Sec. 20 Twp. 28S Rg. 5W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
8:35AM	20min.	1.4" of	water	1" Choke		30,600 C.F.P.D.
8:45AM	10min.	1.8" of	water	1" Choke		34,600 C.F.P.D.
Tool opened at 8:15A. M. in pre-flow period. Gas to surface in 16 minutes.						
SECOND FLOW						
9:40AM	10min.	1.8"of	water	1" Choke		34,600 C.F.P.D.
9:50A.M.	10min.	1.8" of	water	1" Choke		34,600 C.F.P.D.
10:00AM	10min.	1.8" of	water	1" Choke		34,600 C.F.P.D.
10:10AM	10min.	1.8" of	water	1" Choke		34,600 C.F.P.D.
10:20AM	10min.	1.4" of	water	1" Choke		30,600 C.F.P.D.
10:30AM	10min.	1.4" of	water	1" Choke		30,600 C.F.P.D.
10:40AM	10min.	1.4" of	water	1" Choke		30,600 C.F.P.D.
10:50AM	10min.	1.4" of	water	1" Choke		30,600 C.F.P.D.
11:00AM	10min.	1.4" of	water	1" Choke		30,600 C.F.P.D.
Tool opened at 9:30AM in second flow period. Surged to 6" of water-63,300 C.F.P.D. All measurements were taken with a 2" merla orifice well tester through a 1" Choke at 10 minute intervals. Gas stabilized at 30,600 C.F.P.D.						

GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced 10-5-75

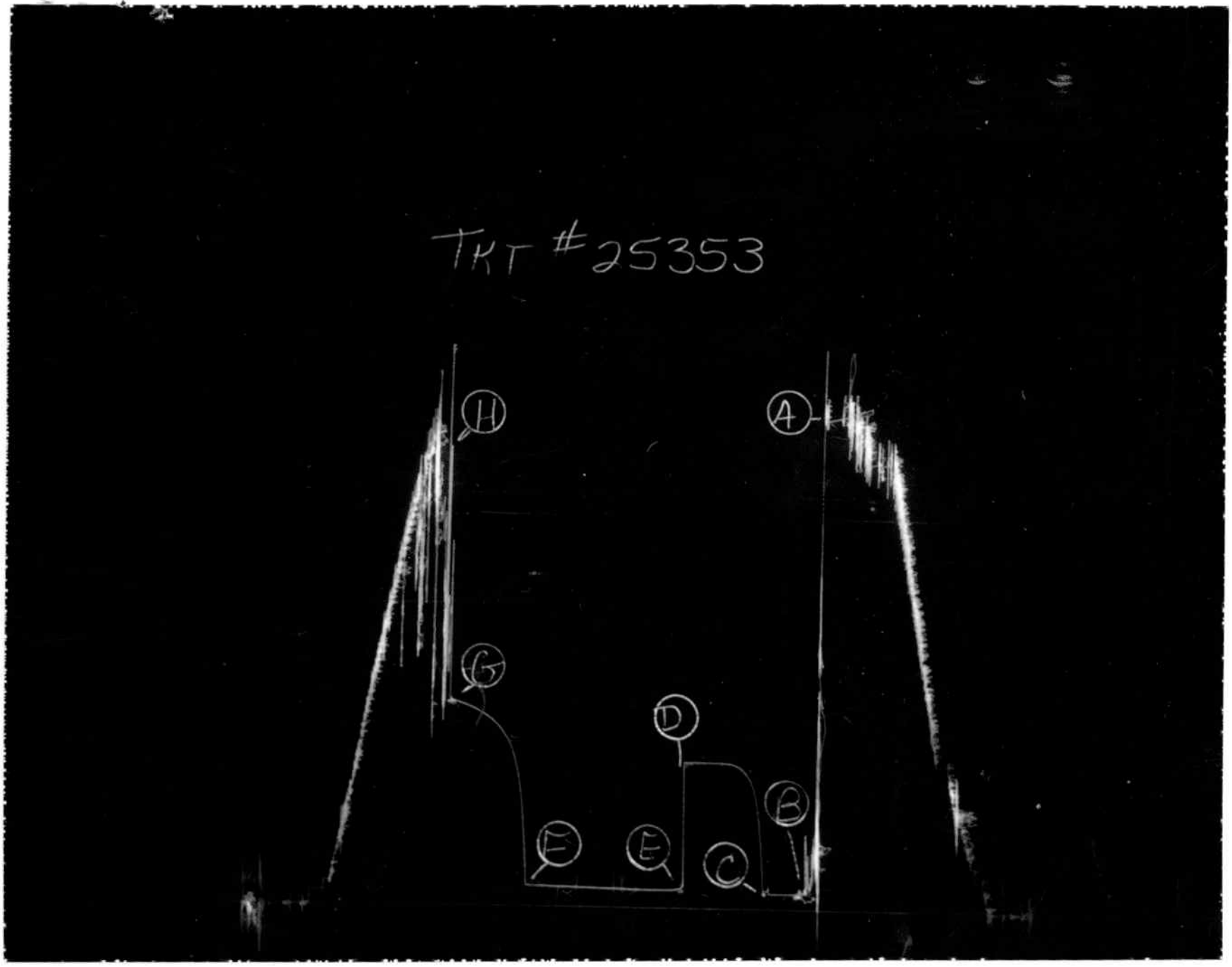
Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Graves Drilling Co., Inc. & Et al

Authorized by Fred Stump

FORM WTC 6


TKT #25353
H
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Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Graves Drilling Co., Inc. & Etal Lease & Well No. Dewey #1

Elevation 1420 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 25354

Date 10-5-75 Sec. 20 Twp. 28S Range 5W County Kingman State Kansas

Test Approved by Fred Stump Western Representative Forrest Purnell

Formation Test No. 2 O.K. X Misrun - Interval Tested From 3864' to 3875' Total Depth 3875'

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 3859 Ft. Size 6 3/4 Bottom Packer Depth 3864 Ft. Size 6 3/4

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

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 11 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3868 Ft. Clock No. 6800 Depth 3871 Ft. Clock No. 9102

Top Make Kuster Cap. 4200 No. 1559 Inside Outside Bottom Make Kuster Cap. 3150 No. 1565 Inside Outside

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

Time Set Packer 10:57 P M

Tool Open I.F.P. From 11:00P M. to 11:30P M. - Hr. 30 Min. From (B) 14 P.S.I. To (C) 14 P.S.I.

Tool Closed I.C.I.P. From 11:30P M. to 12:00P M. - Hr. 30 Min (D) 631 P.S.I.

Tool Open F.F.P. From 12:00P M. to 12:30P M. - Hr. 30 Min. From (E) 22 P.S.I. To (F) 31 P.S.I.

Tool Closed F.C.I.P. From 12:30P M. to 1:00P M. - Hr. 30 Min. (G) 163 P.S.I.

Initial Hydrostatic Pressure (A) 2004 P.S.I. Final Hydrostatic Pressure (H) 1970 P.S.I. Maximum Temp. 122

INFORMATION

BLOW Weak ¼" blow in 5 minutes blow died throughout initial flow period.
Very weak intermitted blow throughout final flow period.

Did Well Flow - X Yes No Recovery Total Ft. 30' drilling mud, with specks of oil on top of tool.

Reversed Out 1 - Yes X No Mud Type Starch Viscosity 46 Weight 9.5 Water Loss 6.0 cc. Chlorides 68,000 PPM

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

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

DRILLING CONTRACTOR Graves Drilling Co. Length Drill Pipe? 3753 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 90 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4H-90 In. Length D.S.T. Tool 32 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 10-5-75 Test Ticket No. 25354

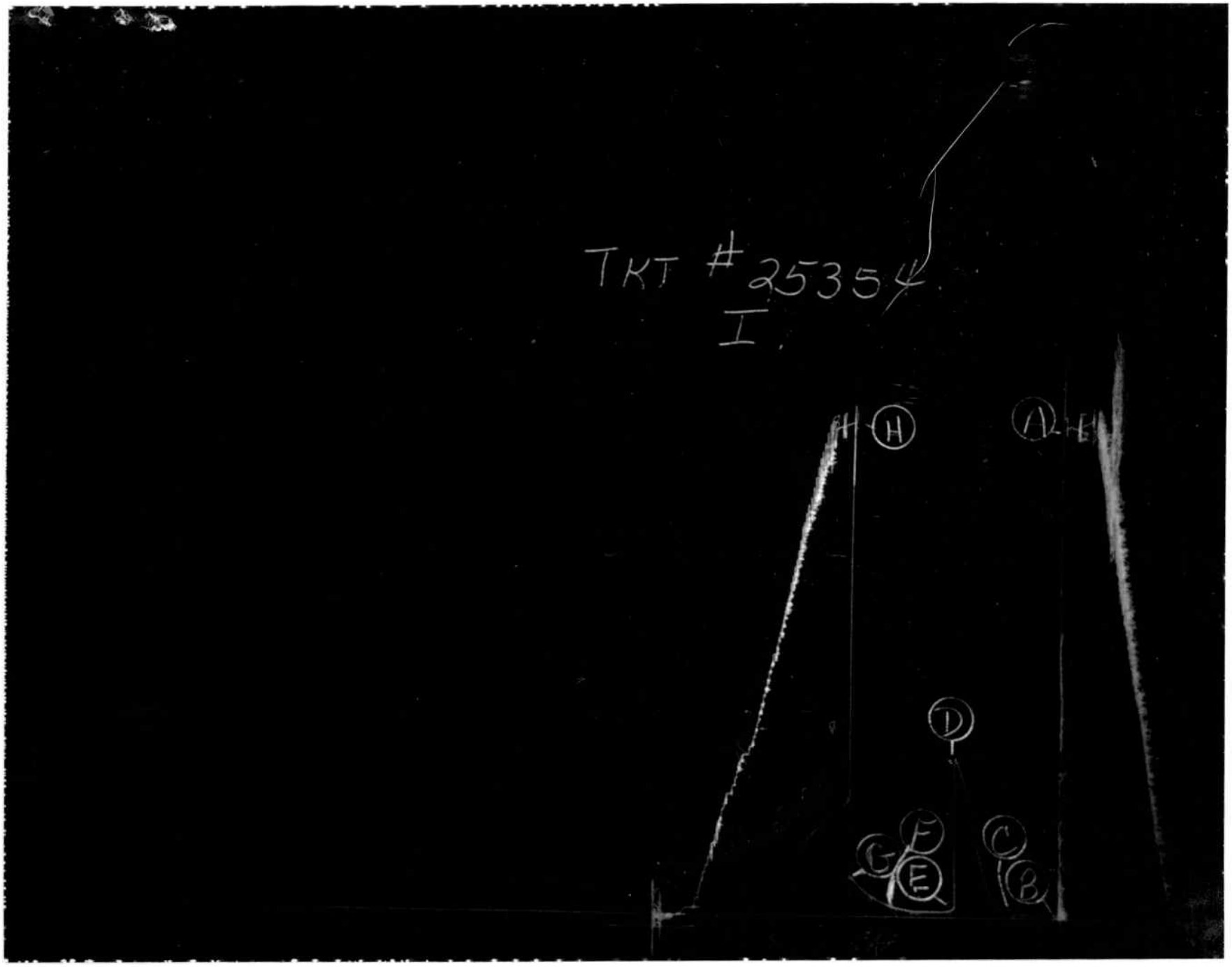
Recorder No. 1559 Capacity 4200 # Location 3868 Ft.

Clock No. 6800 Elevation 1420 Kelly Bushing Well Temperature 122 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2004	P.S.I.	Open Tool	10:57 P M	
B	First Initial Flow Pressure	14	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	14	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	631	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	22	P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	31	P.S.I.			
G	Final Closed-in Pressure	163	P.S.I.			
H	Final Hydrostatic Mud	1970	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 10 Inc.		Breakdown: 6 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	14	0	14	0	22	0	31
P 2 5	12	3	33	5	22	3	35
P 3 10	12	6	39	10	22	6	43
P 4 15	12	9	60	15	22	9	52
P 5 20	14	12	102	20	22	12	62
P 6 25	14	15	171	25	25	15	75
P 7 30	14	18	275	30	31	18	89
P 8		21	386			21	104
P 9		24	479			24	125
P10		27	549			27	150
P11		30	631			30	163
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							


TKT # 25354
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