WESTERN TESTERS INC.

P. O. Box 1599
Wichita, Kansas 67201

Company Range Oil Company, Inc. Lease & Well No. Andes A-#2

Elevation - Formation - Effective Pay - Ft. Ticket No. 25107

Date 6-9-76 Sec. 26 Twp. 33S Range 5E County Cowley State Kansas

Test Approved by Gerald B. Becker Western Representative Roy Pendlay

Formation Test No. 1 O.K. X Misrun - Interval Tested From 289' to 343' Total Depth 343'

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 284 Ft. Size 6 3/4 Bottom Packer Depth 289 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 54 Ft. Size 5½ OD Surface Choke Size 1/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 293 Ft. Clock No. 6896 Depth 296 Ft. Clock No. 6866

Top Make Kuster Cap. 4500 No. 3085 ~~Inside~~ Outside Bottom Make Kuster Cap. 3150 No. 1562 ~~Inside~~ Outside

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

Time Set Packer 4:40 P M

Tool Open I.F.P. From 4:45 P M. to 5:15 P M. - Hr. 30 Min. From (B) 15 P.S.I. To (C) 20 P.S.I.

Tool Closed I.C.I.P. From 5:15 M. to 5:45 P M. - Hr. 30 Min (D) 74 P.S.I.

Tool Open F.F.P. From 5:45 P M. to 6:45 P M. 1 Hr. - Min. From (E) 22 P.S.I. To (F) 23 P.S.I.

Tool Closed F.C.I.P. From 6:45 M. to 7:45 P M. 1 Hr. - Min. (G) 77 P.S.I.

Initial Hydrostatic Pressure (A) 126 P.S.I. Final Hydrostatic Pressure (H) 121 P.S.I. Maximum Temp. 96

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 15 minutes in initial flow period. (See attached sheet for gas measurements).

Did Well Flow - Yes X No Recovery Total Ft. 40' drilling mud.

Reversed Out - Yes X No Mud Type chem Viscosity 34 Weight - Water Loss - cc. Chlorides -

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

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

DRILLING CONTRACTOR White & Ellis Drlg., Inc. Length Drill Pipe? 71 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 198 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4½H90 In. Length D.S.T. Tool 74 Ft.

Remarks: Read outside recorder.

WESTERN TESTING CO., INC.
Pressure Data

Date 6-9-76 Test Ticket No. 25107

Recorder No. 1562 Capacity 3150 Location 296 Ft.

Clock No. 6866 Elevation - Well Temperature 96 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	126	P.S.I.	Open Tool	4:40 PM	
B	First Initial Flow Pressure	15	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	20	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	74	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	22	P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	23	P.S.I.			
G	Final Closed-in Pressure	77	P.S.I.			
H	Final Hydrostatic Mud	121	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 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: 20 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	15	0	20	0	22	0	23
P 2	5	15	3	45	5	20	3	61
P 3	10	17	6	62	10	20	6	71
P 4	15	17	9	69	15	20	9	73
P 5	20	18	12	72	20	21	12	76
P 6	25	19	15	73	25	21	15	76
P 7	30	20	18	74	30	21	18	76
P 8			21	74	35	22	21	76
P 9			24	74	40	22	24	77
P10			27	74	45	22	27	77
P11			30	74	50	23	30	77
P12					55	23	33	77
P13					60	23	36	77
P14							39	77
P15							42	77
P16							45	77
P17							48	77
P18							51	77
P19							54	77
P20							57	77
							60	77

WESTERN TESTERS INC.
P. O. Box 1599
Wichita, Kansas 67201

GAS FLOW REPORT

Date 6-9-76 Ticket 25107 Company Range Oil Company, Inc.

Well Name and No. Andes A-#2 Dst No. 1 Interval Tested 289' - 343'

County Coffey State Kansas Sec. 26 Twp. 33S Rg. 5E

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						
Gas to surface 15 minutes after shut in. Hard to gauge because of fluctuating.						
SECOND FLOW						
5 min.	2½ inches of water			1/4"choke		2,710 C.F.P.D.
10 min.	3 inches of water			1/4"choke		2,920 C.F.P.D.
15 min.	3 inches of water			1/4"choke		2,920 C.F.P.D.
20 min.	3½ inches of water			1/4"choke		3,150 C.F.P.D.
25 min.	4 inches of water			1/4"choke		3,370 C.F.P.D.
30 min.	4 inches of water			1/4"choke		3,370 C.F.P.D.
35 min.	4 inches of water			1/4"choke		3,370 C.F.P.D.
40 min.	4½ inches of water			1/4"choke		3,580 C.F.P.D.
45 min.	5 inches of water			1/4"choke		3,710 C.F.P.D.
50 min.	5 inches of water			1/4"choke		3,710 C.F.P.D.
55 min.	5½ inches of water			1/4"choke		3,950 C.F.P.D.
60 min.	5½ inches of water			1/4"choke		3,950 C.F.P.D.

GAS BOTTLE

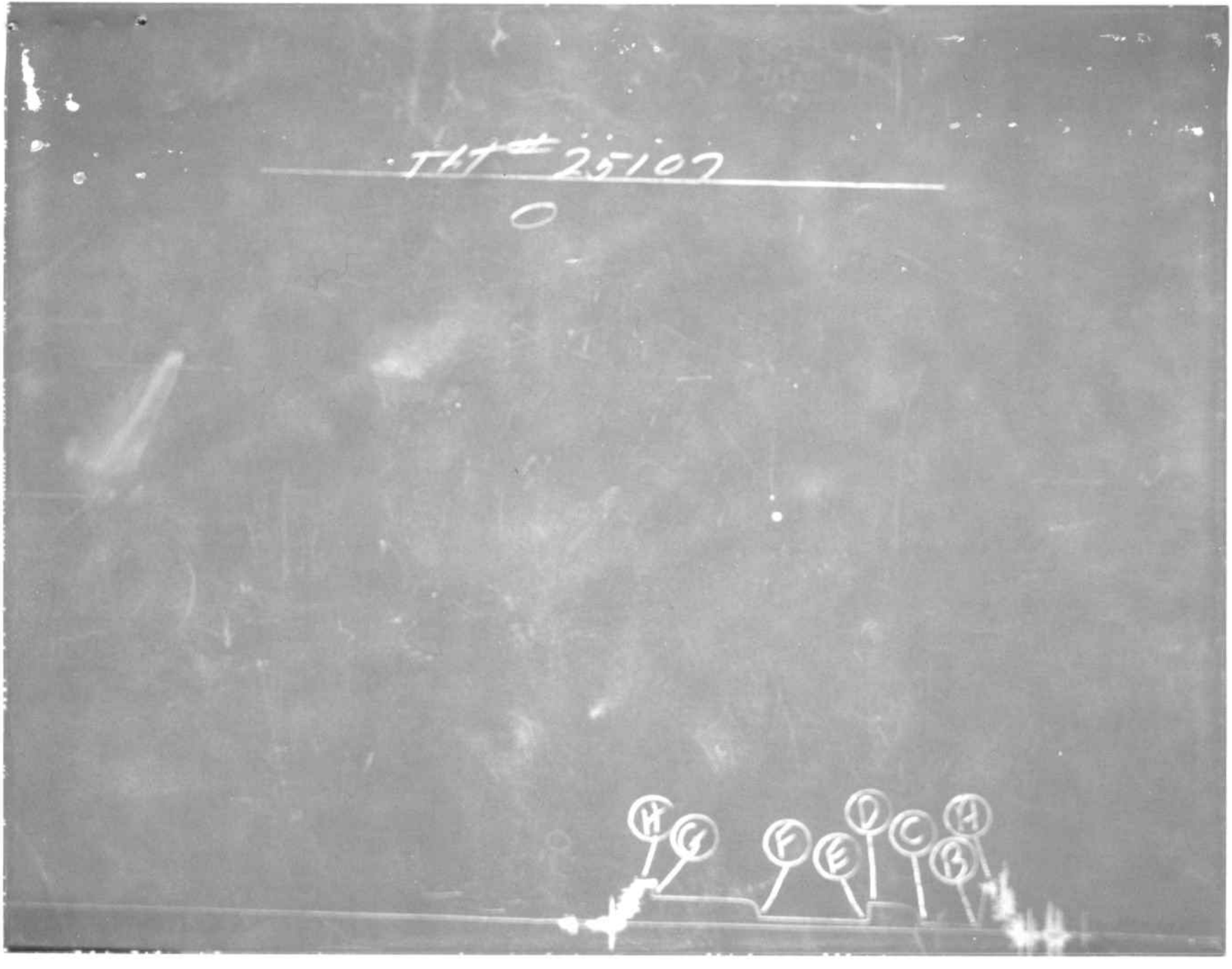
Serial No. 624 Date Bottle Filled 6-9-76 Date to be Invoiced 6-9-76

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 Range Oil Company, Inc.

Authorized by Gerald B. Becker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WESTERN TESTERS INC.

P. O. Box 1599
Wichita, Kansas 67201

Company Range Oil Company, Inc. Lease & Well No. Andes A-#2

Elevation - Formation - Effective Pay - Ft. Ticket No. 25108

Date 6-10-76 Sec. 26 Twp. 33S Range 5E County Cowley State Kansas

Test Approved by Gerald B. Becker Western Representative Roy Pendlay

Formation Test No. 2 O.K. X Misrun - Interval Tested From 563' to 590' Total Depth 590'

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 558 Ft. Size 6 3/4 Bottom Packer Depth 563 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 27 Ft. Size 5½OD Surface Choke Size 1/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 567 Ft. Clock No. 6896 Depth 570 Ft. Clock No. 6866

Top Make Kuster Cap. 4500 No. 3085 Inside ~~Outside~~ Bottom Make Kuster Cap. 3150 No. 1562 ~~Inside~~ Outside

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

Time Set Packer 4:41 A M

Tool Open I.F.P. From 4:45 A M. to 5:15 A M. - Hr. 30 Min. From (B) 16 P.S.I. To (C) 13 P.S.I.

Tool Closed I.C.I.P. From 5:15 M. to 5:45 A M. - Hr. 30 Min (D) 225 P.S.I.

Tool Open F.F.P. From 5:45 M. to 6:15 A M. - Hr. 30 Min. From (E) 13 P.S.I. To (F) 12 P.S.I.

Tool Closed F.C.I.P. From 6:15 M. to 7:15 M. 1 Hr. - Min. (G) 229 P.S.I.

Initial Hydrostatic Pressure (A) 271 P.S.I. Final Hydrostatic Pressure (H) 265 P.S.I. Maximum Temp. -

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 25 minutes. see attached sheet for gas measurements.

Did Well Flow - Yes X No Recovery Total Ft. 30' drilling mud.

Reversed Out - Yes X No Mud Type chem Viscosity 42 Weight 8.9 Water Loss - cc. Chlorides -

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

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

DRILLING CONTRACTOR White & Ellis Drlg. Inc. Length Drill Pipe? 345 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 198 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4½H90 In. Length D.S.T. Tool 47 Ft.

Remarks: Read outside recorder.

WESTERN TESTING CO., INC.
Pressure Data

Date 6-10-76 Test Ticket No. 25108

Recorder No. 1562 Capacity 3150 Location 570 Ft.

Clock No. 6866 Elevation - Well Temperature - °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	271	P.S.I.	Open Tool	4:41 A M	
B	First Initial Flow Pressure	16	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	13	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	225	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	13	P.S.I.	Final Closed-in Pressure	60 Mins.	57 Mins.
F	Second Final Flow Pressure	12	P.S.I.			
G	Final Closed-in Pressure	229	P.S.I.			
H	Final Hydrostatic Mud	265	P.S.I.			

PRESSURE BREAKDOWN

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

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

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

Final Shut-In
Breakdown: 19 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	16	0	13	0	13	0	12
P 2	5	13	3	141	5	12	3	113
P 3	10	14	6	173	10	12	6	152
P 4	15	15	9	201	15	12	9	175
P 5	20	14	12	207	20	12	12	188
P 6	25	13	15	211	25	12	15	198
P 7	30	13	18	216	30	12	18	203
P 8			21	219			21	208
P 9			24	222			24	211
P10			27	224			27	214
P11			30	225			30	217
P12							33	219
P13							36	220
P14							39	222
P15							42	224
P16							45	225
P17							48	226
P18							51	227
P19							54	228
P20							57	229

INC.
P. O. Box 1599
Wichita, Kansas 67201

GAS FLOW REPORT

Date 6-10-76 Ticket 25108 Company Range Oil Company, Inc.

Well Name and No. Andes #2 Dst No. 2 Interval Tested 563' - 590'

County Cowley State Kansas Sec. 26 Twp. 33S Rg. 5E

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						
5:30 AM	30 min.	1/4" choke		65" of water		4,300 C.F.P.D.
Gas to surface in 25 minutes.						
SECOND FLOW						
5:50 AM	5 min.	1/4" choke		9.5" of water		5,170 C.F.P.D.
6:00 AM	10 min.	1/4" choke		8.0" of water		4,760 C.F.P.D.
6:05 AM	15 min.	1/4" choke		8.0" of water		4,760 C.F.P.D.
6:10 AM	20 min.	1/4" choke		7.5" of water		4,550 C.F.P.D.
6:15 AM	25 min.	1/4" choke		7.0" of water		4,450 C.F.P.D.
6:20 AM	30 min.	1/4 choke		7.0" of water		4,450 C.F.P.D.
All measurements were taken with a 2" merla orifice well tester with a 1/4" choke.						

GAS BOTTLE

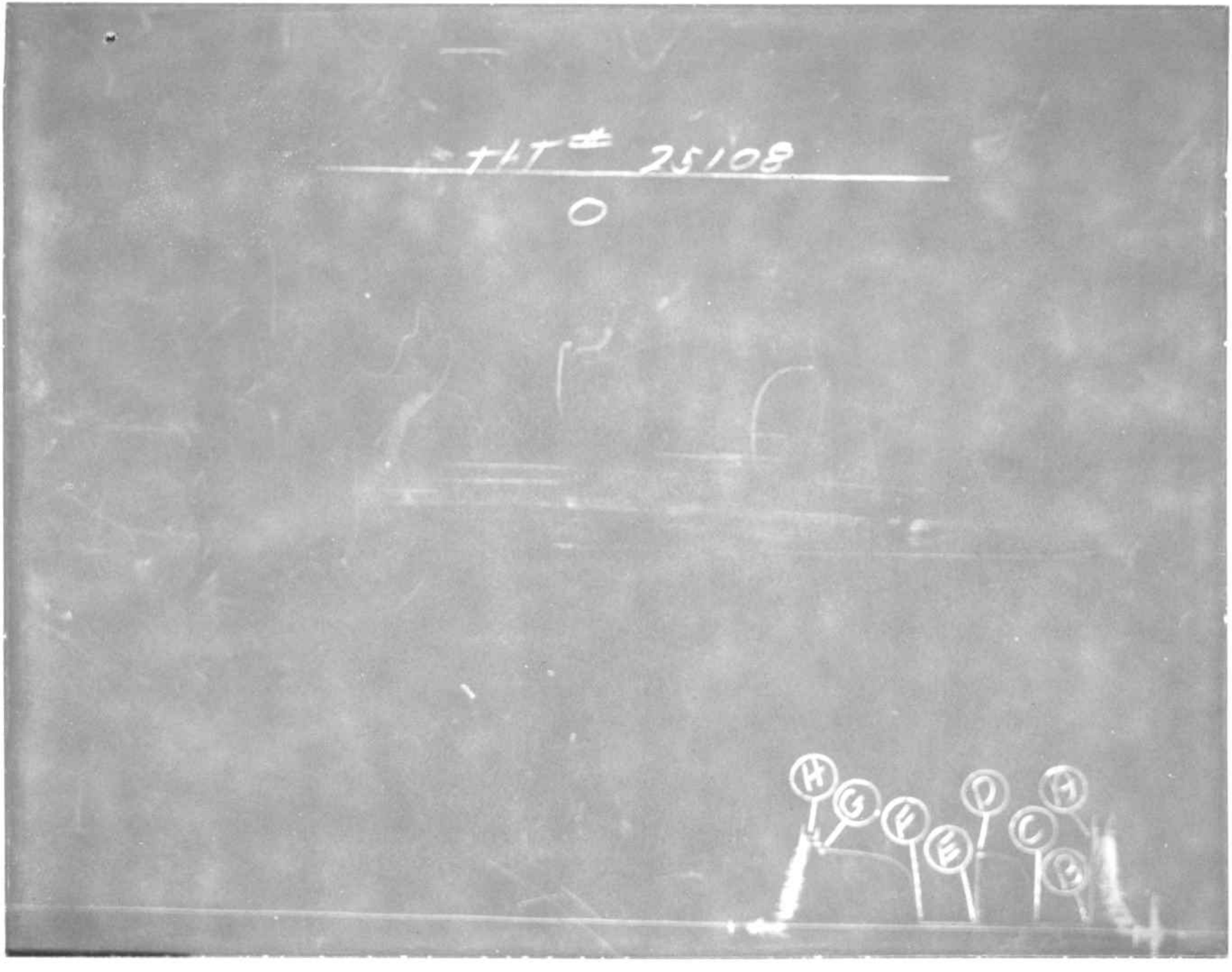
Serial No. 211 Date Bottle Filled 6-10-76 Date to be Invoiced 6-10-76

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 amoun

COMPANY'S NAME Range Oil Company, Inc.

Authorized by Gerald B. Becker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WESTERN TESTERS INC.

P. O. Box 1599
Wichita, Kansas 67201

Company Range Oil Company, Inc. Lease & Well No. Andes A-#2

Elevation 1276 Kelly Bushing Formation Layton Effective Pay - Ft. Ticket No. 25111

Date 6-12-76 Sec. 26 Twp. 33S Range 5E County Cowley State Kansas

Test Approved by Gerald D. Honas Western Representative Roy Pendlay

Formation Test No. 3 O.K. X Misrun - Interval Tested From 2346' to 2366' Total Depth 2366'

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 2341 Ft. Size 6 3/4 Bottom Packer Depth 2346 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 20 Ft. Size 5½ OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2349 Ft. Clock No. 6866 Depth 2352 Ft. Clock No. 6896

Top Make Kuster Cap. 3150 No. 1562 Inside ~~Outside~~ Bottom Make Kuster Cap. 4500 No. 3085 Inside Outside

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

Time Set Packer 7:43 P M

Tool Open I.F.P. From 7:45 P M. to 8:15 P M. - Hr. 30 Min. From (B) 19 P.S.I. To (C) 72 P.S.I.

Tool Closed I.C.I.P. From 8:15 M. to 8:45 P M. - Hr. 30 Min (D) 799 P.S.I.

Tool Open F.F.P. From 8:45 P M. to 9:15 P M. - Hr. 30 Min. From (E) 91 P.S.I. To (F) 110 P.S.I.

Tool Closed F.C.I.P. From 9:15 M. to 9:55 P M. - Hr. 40 Min. (G) 795 P.S.I.

Initial Hydrostatic Pressure (A) 1216 P.S.I. Final Hydrostatic Pressure (H) 1184 P.S.I. Maximum Temp. 104

INFORMATION

BLOW Fair blow throughout test.

Did Well Flow - Yes X No Recovery Total Ft. 90' salty thin mud, 115' muddy salt water, 5' heavy mud. 210' total fluid.

Reversed Out - Yes X No Mud Type chem Viscosity 44 Weight 9.8 Water Loss 12.4 cc. Chlorides 2200 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? No Where? -

DRILLING CONTRACTOR White & Ellis Drlg., Inc. Length Drill Pipe? 2188 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½ XH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 138 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4½ H90 In. Length D.S.T. Tool 40 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 6-12-76 Test Ticket No. 25111

Recorder No. 1562 Capacity 3150 Location 2349 Ft.

Clock No. 6866 Elevation 1276 Kelly Bushing Well Temperature 104 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1216	P.S.I.	Open Tool	7:43 PM	
B	First Initial Flow Pressure	19	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	72	P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D	Initial Closed-in Pressure	799	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	91	P.S.I.	Final Closed-in Pressure	40 Mins.	39 Mins.
F	Second Final Flow Pressure	110	P.S.I.			
G	Final Closed-in Pressure	795	P.S.I.			
H	Final Hydrostatic Mud	1184	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 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 0 Min.

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

Final Shut-In
Breakdown: 13 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	19	0	72	0	91	0	110
P 2	5	35	3	683	5	89	3	668
P 3	10	46	6	729	10	93	6	715
P 4	15	52	9	749	15	97	9	738
P 5	20	62	12	764	20	102	12	752
P 6	25	69	15	774	25	105	15	761
P 7	30	72	18	785	30	110	18	769
P 8			21	791			21	775
P 9			24	796			24	780
P10			27	799			27	785
P11							30	788
P12							33	791
P13							36	793
P14							39	795
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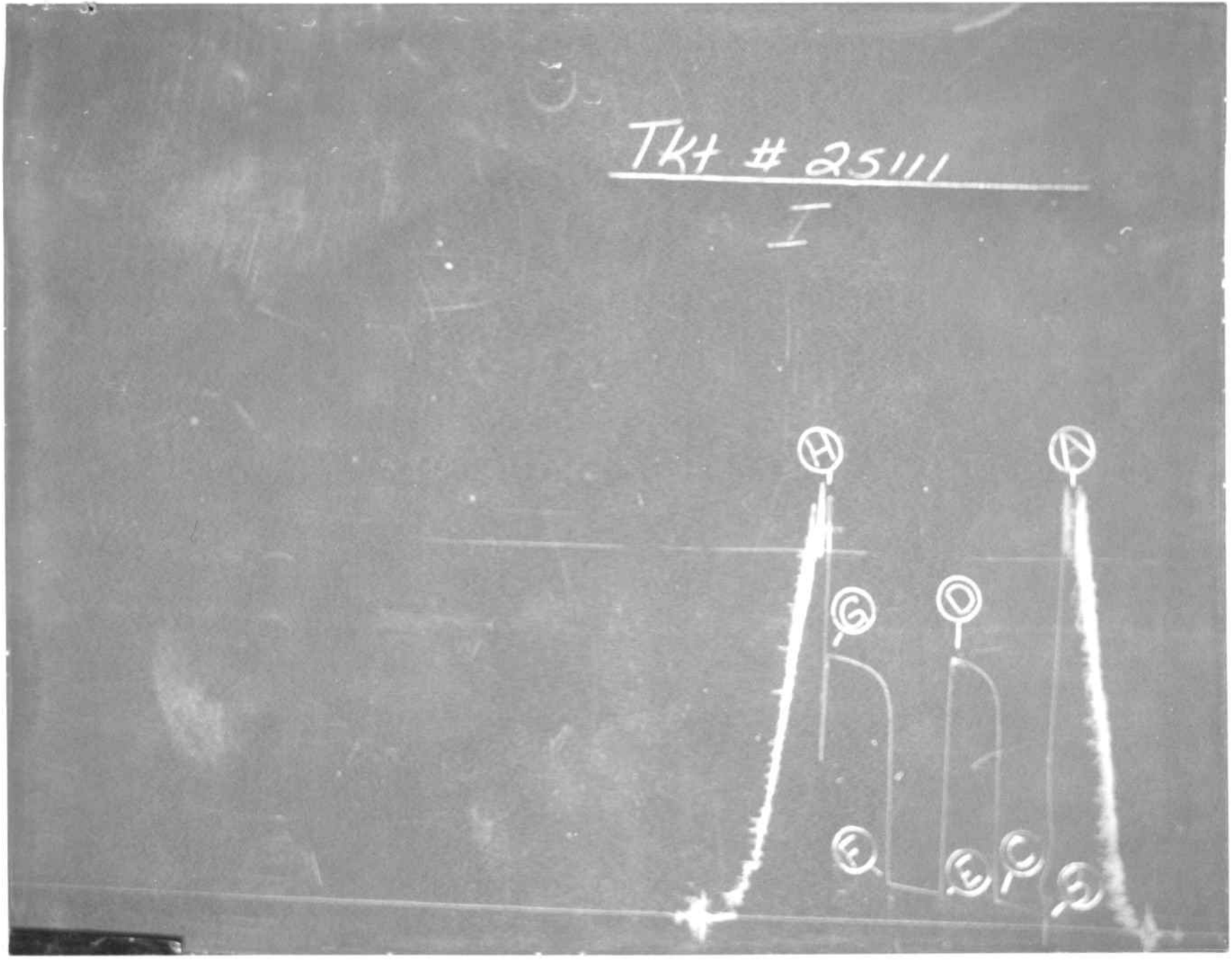
Tkt # 25111
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