WESTERN TESTERS

P. O. BOX 1599 PHONE (316) 838-0601

WICHITA, KANSAS 67201

Company Texas Oil & Gas Corp. Lease & Well No. Pauly # 1

Elevation 1354 Kelly Bush. Formation Indian Cave Effective Pay - Ft. Ticket No. 198

Date 4-4-78 Sec. 13 Twp. 31S Range 3W County Sumner State Kansas

Test Approved by K. W. Dahlberg Western Representative Tim Wilson

Formation Test No. 1 Interval Tested from 1573 ft. to 1682 ft. Total Depth 1682 ft.

Packer Depth 1568 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 1573 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 1577 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 1580 ft. Recorder Number 1561 Cap. 3200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor DNB #3 Drill Collar Length 311 I. D. 2¼ in.

Mud Type Starch Viscosity 38 Weight Pipe Length 717 I. D. 2.7 in.

Weight 9.7 Water Loss 10.8 cc. Drill Pipe Length 518 I. D. 3.8 in.

Chlorides 68 P.P.M. Test Tool Size 5½OD in. Tool Joint Size 4½FH in.

Jars: Make W.T.C. Serial Number 406 Anchor Length 109 ft. Size 5½OD in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in.

Blow: Very weak for 23 minutes on initial flow period. Very weak for 5 minutes on final flow period.

Recovered 2 ft. of drilling mud.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:28 A.M. ~~P.M.~~ Time Started Off Bottom 7:00 A.M. ~~P.M.~~ Maximum Temperature 89

Initial Hydrostatic Pressure ..... (A) 804 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 25 P.S.I. to (C) 18 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 663 P.S.I.

Final Flow Period ..... Minutes 15 (E) 46 P.S.I. to (F) 27 P.S.I.

Final Closed In Period ..... Minutes 45 (G) 627 P.S.I.

Final Hydrostatic Pressure ..... (H) 795 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 4-4-78 Test Ticket No. 198

Recorder No. 1559 Capacity 4200 Location 1577 Ft.

Clock No. - Elevation 1354 Kelly Bushing Well Temperature 89 °F

Point		Pressure	
A	Initial Hydrostatic Mud	804	P.S.I.
B	First Initial Flow Pressure	25	P.S.I.
C	First Final Flow Pressure	18	P.S.I.
D	Initial Closed-in Pressure	663	P.S.I.
E	Second Initial Flow Pressure	46	P.S.I.
F	Second Final Flow Pressure	27	P.S.I.
G	Final Closed-in Pressure	627	P.S.I.
H	Final Hydrostatic Mud	795	P.S.I.

	Time Given	Time Computed
Open Tool	4:28A 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	45 Mins.	45 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	25
P 2	5	17
P 3	10	17
P 4	15	17
P 5	20	17
P 6	25	17
P 7	30	18
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	18
	3	92
	6	217
	9	316
	12	380
	15	435
	18	481
	21	512
	24	540
	27	564
	30	581
	33	596
	36	608
	39	619
	42	629
	45	635
	48	644
	51	650
	54	656
	57	660
	60	663

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

Point	Minutes	Press.
	0	46
	5	27
	10	27
	15	27

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

Point	Minutes	Press.
	0	27
	3	140
	6	263
	9	349
	12	412
	15	460
	18	496
	21	525
	24	548
	27	567
	30	581
	33	595
	36	604
	39	614
	42	625
	45	627

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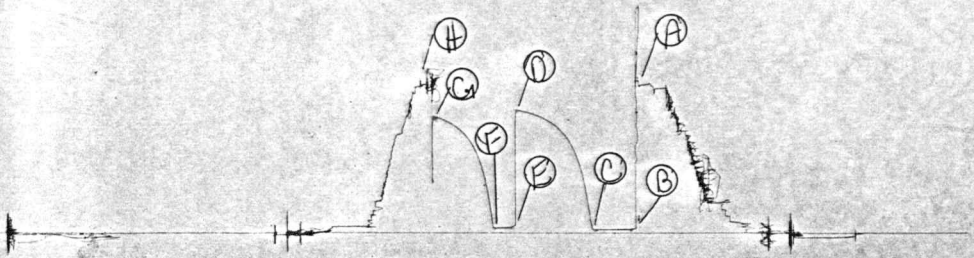

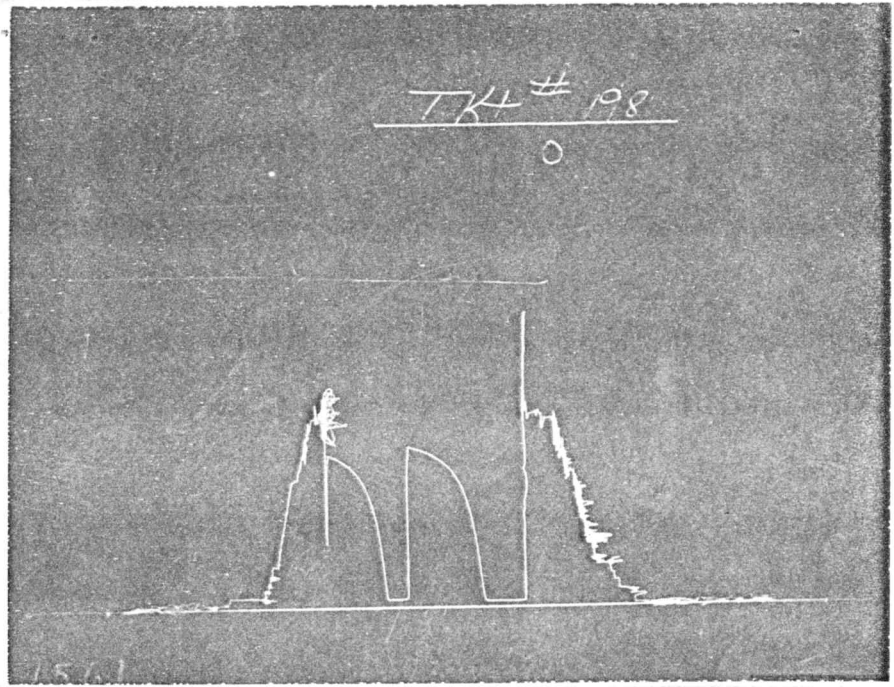
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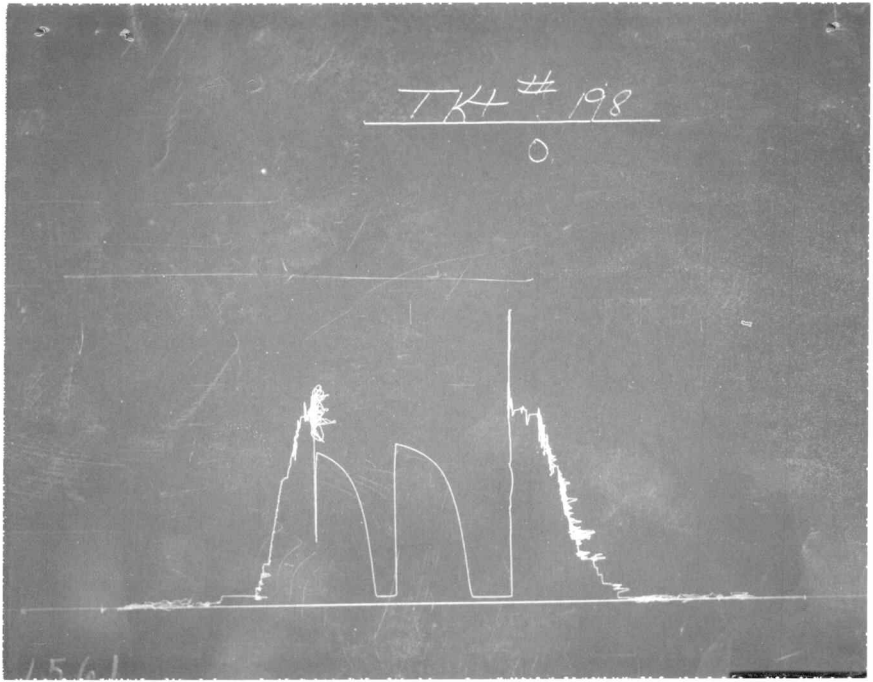
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WESTERN TESTERS
P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Company Texas Oil & Gas Corporation — Lease & Well No. Pauly #1

Elevation 1354 Kelly Bushing — Formation White Cloud — Effective Pay -------- Ft. — Ticket No. 199

Date 4/5/78 — Sec. 13 — Twp 31s — Range 3w — County Sumner — State Kansas

Test Approved by K. W. Dahlberg — Western Representative Tim Wilson

Formation Test No. 2 — Interval Tested from 2060' ft. to 2094' ft. — Total Depth 2095' ft.

Packer Depth 2055 ft. — Size 6 3/4 in. — Packer Depth --------- ft. — Size ----- in.

Packer Depth 2060 ft. — Size 6 3/4 in. — Packer Depth ---------- ft. — Size ------ in.

Depth of Selective Zone Set --------

Top Recorder Depth (Inside) 2040 ft. — Recorder Number 1599 — Cap. 4200

Bottom Recorder Depth (Outside) 2089 ft. — Recorder Number 1561 — Cap. 3200

Below Straddle Recorder Depth ------ ft. — Recorder Number ------- — Cap. ------

Drilling Contractor D.N. & B. #3 — Drill Collar Length 311 — I. D. 2¼ in.

Mud Type starch — Viscosity 40 — Weight Pipe Length 717 — I. D. 2.7 in.

Weight 9.8 — Water Loss 14.4 cc. — Drill Pipe Length 1000.50 — I. D. 3.8 in.

Chlorides 99,000 P.P.M. — Test Tool Size 5½ in. — Tool Joint Size 4½FH in.

Jars: Make WTC — Serial Number 406 — Anchor Length 34 ft. — Size 5½ in.

Did Well Flow? No — Reversed Out — Surface Choke Size 3/4 in. — Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in.

Blow:

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of MISRUN

Recovered ft. of

Remarks:

Time Set Packer(s) A.M. P.M. — Time Started Off Bottom A.M. P.M. — Maximum Temperature

Initial Hydrostatic Pressure ..... (A) P.S.I.

Initial Flow Period ..... Minutes (B) P.S.I. to (C) P.S.I.

Initial Closed In Period ..... Minutes (D) P.S.I.

Final Flow Period ..... Minutes (E) P.S.I. to (F) P.S.I.

Final Closed In Period ..... Minutes (G) P.S.I.

Final Hydrostatic Pressure ..... (H) P.S.I.

WESTERN TESTERS

P. O. BOX 1599 PHONE (316) 838-0601

WICHITA, KANSAS 67201

Company Texas Oil & Gas Corp. Lease & Well No. Pauly #1

Elevation 1354 Kelly Bush. Formation White Cloud Effective Pay - Ft. Ticket No. 200

Date 4-5-78 Sec. 13 Twp. 31S Range 3W County Sumner State Kansas

Test Approved by K. W. Dahlberg Western Representative Tim Wilson

Formation Test No. 3 Interval Tested from 2060 ft. to 2094 ft. Total Depth 2094 ft.

Packer Depth 2055 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2060 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2040 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 2089 ft. Recorder Number 1561 Cap. 3200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor DNB #3 Drill Collar Length - I. D. - in.

Mud Type Starch Viscosity 40 Weight Pipe Length 717 I. D. 2.7 in.

Weight 9.8 Water Loss 14.4 cc. Drill Pipe Length 1311.50 I. D. 3.8 in.

Chlorides 99,000 P.P.M. Test Tool Size 5½ in. Tool Joint Size 4½FH in.

Jars: Make W.T.C. Serial Number 406 Anchor Length 34 ft. Size 5½OD in.

Did Well Flow? Yes Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in.

Blow: Very strong , gas to surface in 1 minute. Started blowing a mist of drilling mud in 13 minutes. See attached sheet for gas measurements.

Recovered 1 ft. of drilling mud.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:42 ~~A.M.~~ P.M. Time Started Off Bottom 7:30 ~~A.M.~~ P.M. Maximum Temperature 94

Initial Hydrostatic Pressure ..... (A) 1100 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 119 P.S.I. to (C) 369 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 475 P.S.I.

Final Flow Period ..... Minutes 45 (E) 366 P.S.I. to (F) 379 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 479 P.S.I.

Final Hydrostatic Pressure ..... (H) 1079 P.S.I.

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

GAS FLOW REPORT

Date 4/5/78 Ticket 200 Company Texas Oil & Gas Corporation

Well Name and No. Pauly #1 Dst No. 3 Interval Tested 2060-2094 White Cloud

County Sumner State Kansas Sec. 13 Twp. 315 Rg. 3w

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
Tool open 3:45 PM				**PRE FLOW**		Gas to surface 1 minute
3:50	5 min.	2"	orifice	8 lbs		2,060,000 C. F. P. D.
3:55	10 min.	2"	orifice	11 lbs.		2,420,000
4:00	15 min.	2"	orifice	12 lbs.		2,530,000
4:05	20 min.	2"	orifice	17		3,020,000
4:10	25 min.	2"	orifice	18		3,120,000
4:15	30 min.	2"	orifice	18		3,120,000
Tool shut in 60 minutes				**SECOND FLOW**		
5:15	0 min.	2"	orifice	9		2,190,000 C.F.P.D.
5:20	5 min.	2"	orifice	17		3,020,000
5:25	10 min.	2"	orifice	18		3,120,000
5:30	15 min.	2"	orifice	18		3,120,000
5:35	20 min.	2"	orifice	18		3,120,000
5:40	25 min.	2"	orifice	18		3,120,000
5:45	30 min.	2"	orifice	18		3,120,000
5:50	35 min.	2"	orifice	18		3,120,000
5:55	40 min.	2"	orifice	18		3,120,000
6:00	45 min.	2"	orifice	18		3,120,000

GAS BOTTLE

Serial No. 10939 Date Bottle Filled 4/5/78 Date to be Invoiced

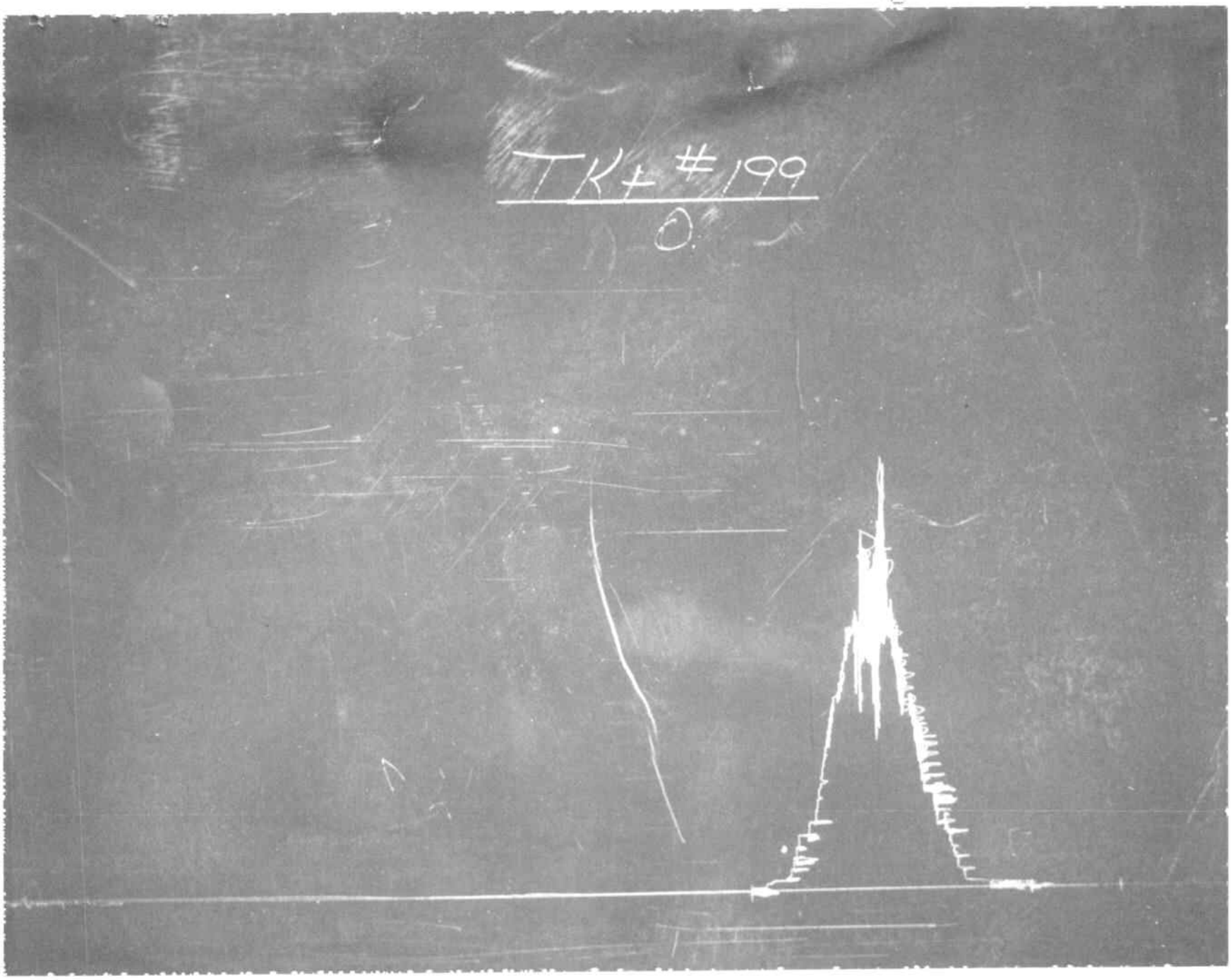
Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By 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 Texas Oil & Gas Corporation

Authorized by K. W. Dahlberg

FORM WTC-5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WESTERN TESTING CO., INC.
Pressure Data

Date 4/5/78 Test Ticket No. 200

Recorder No. 1559 Capacity 4200 Location 2040 Ft.

Clock No. ------- Elevation 1354 Kelly Bushing Well Temperature 94 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1100	P.S.I.
B	First Initial Flow Pressure	119	P.S.I.
C	First Final Flow Pressure	369	P.S.I.
D	Initial Closed-in Pressure	475	P.S.I.
E	Second Initial Flow Pressure	366	P.S.I.
F	Second Final Flow Pressure	379	P.S.I.
G	Final Closed-in Pressure	479	P.S.I.
H	Final Hydrostatic Mud	1079	P.S.I.

	Time Given	Time Computed
Open Tool	3:42P M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	60 Mins.	60 Mins.
Second Flow Pressure	45 Mins.	30 Mins.
Final Closed-in Pressure	90 Mins.	90 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	119
P 2 5	336
P 3 10	349
P 4 15	357
P 5 20	364
P 6 25	368
P 7 30	369
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	369
3	454
6	460
9	464
12	466
15	469
18	471
21	472
24	473
27	473
30	473
33	474
36	474
39	474
42	474
45	474
48	475
51	475
54	475
57	475
60	475

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

Point Minutes	Press.
0	366
5	372
10	378
15	379
20	379
25	379
30	379

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	379
3	452
6	460
9	464
12	466
15	469
18	471
21	472
24	473
27	473
30	474
33	474
36	474
39	475
42	475
45	475
48	476
51	476
54	476
57	477
60	477

WESTERN TESTING CO., INC.
Pressure Data

Date 4/5/78 Test Ticket No. 200

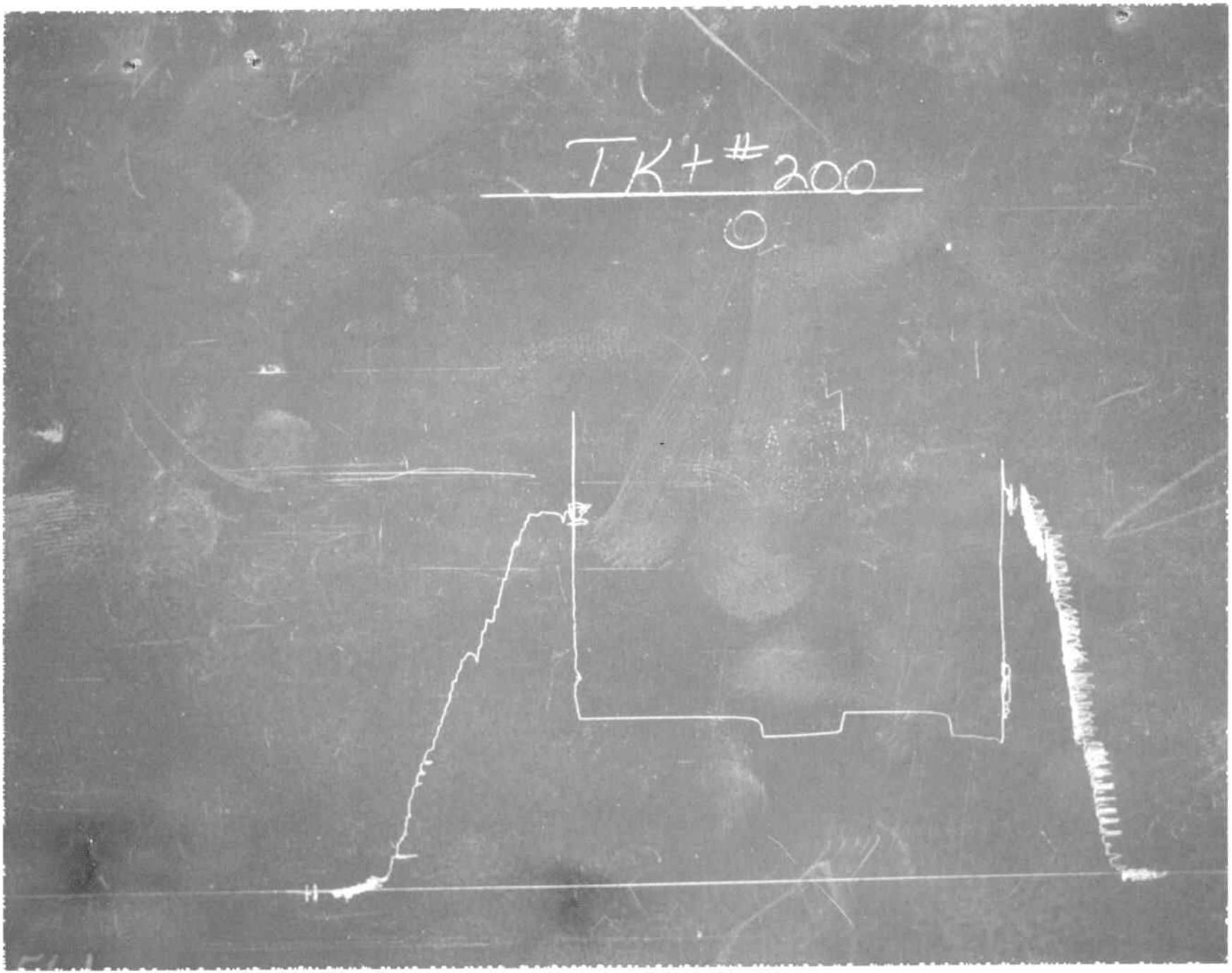
Recorder No. 1559 Capacity 4200 Location 2040 Ft.

Clock No. -------- Elevation 1354 Kelly Bushing Well Temperature 94 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1100	P.S.I.	Open Tool	3:42P M	
B	First Initial Flow Pressure	119	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	369	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	475	P.S.I.	Second Flow Pressure	45 Mins.	30 Mins.
E	Second Initial Flow Pressure	366	P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	379	P.S.I.			
G	Final Closed-in Pressure	479	P.S.I.			
H	Final Hydrostatic Mud	1079	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: ____ Inc.		Breakdown: ____ Inc.		Breakdown: ____ Inc.		Breakdown: 30 Inc.	
of ____ mins. and a		of ____ mins. and a		of ____ mins. and a		of 3 mins. and a	
final inc. of ____ Min.		final inc. of ____ Min.		final inc. of ____ Min.		final inc. of 0 Min.	
Point Mins.	**Press.**	**Point Minutes**	**Press.**	**Point Minutes**	**Press.**	**Point Minutes**	**Press.**
P 1						63	477
P 2						66	478
P 3						69	478
P 4						72	478
P 5						75	479
P 6						78	479
P 7						81	479
P 8						84	479
P 9						87	479
P10						90	479
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							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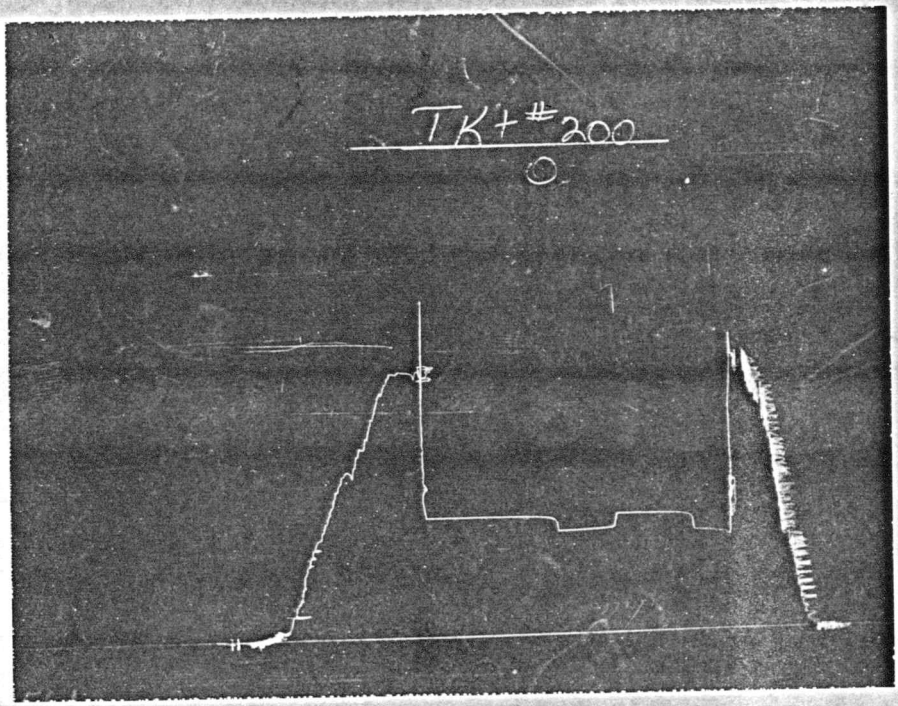
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