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

WESTERN TESTING CO., INC.

Tight Hole FORMATION TESTING

Tested Tight Hole!

TICKET No. 3325

Elevation 1331 KB Formation Stalnaker Eff. Pay Ft.

District Augusta Date 19 Nov 79 Customer Order No.

COMPANY NAME Texas Oil and Gas Corp

ADDRESS 329 Medicine Lodge Kansas

LEASE AND WELL NO. Renner #1 COUNTY Sumner STATE Kan Sec. 29 Twp. 30S Rge. 2W

Mail Invoice To Same No. Copies Requested 1
Co. Name Address

Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 1 Interval Tested from 2791 ft. to 2805 ft. Total Depth 2805 ft.

Packer Depth 2786 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 2791 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 2796 ft. Recorder Number 1558 Cap. 4200

Bottom Recorder Depth (Outside) 2799 ft. Recorder Number 1559 Cap. 4200

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

Drilling Contractor Slawson #4

Mud Type Premix Viscosity 45

Weight 9.2 Water Loss 40 cc.

Chlorides 26,000 salt P.P.M.

Jars: Make WTC Serial Number 401

Did Well Flow? gas Reversed Out NO

Drill Collar Length 373' I. D. 2 1/4 in.

Weight Pipe Length — I. D. — in.

Drill Pipe Length 2390' I. D. 3.8 in.

Test Tool Length 42 ft. Tool Size 5 1/2 in.

Anchor Length 14 ft. Size 5 1/2 in.

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow gas to surface in 15 minutes See attached gas report # 2106

Recovered 270 ft. of muddy water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Tight Hole!!!

RECEIVED
NOV 20 1979

Time Set Packer(s) 12:20 A.M. P.M. Time Started Off Bottom 4:05 A.M. P.M. Maximum Temperature 110

Initial Hydrostatic Pressure			(A)	1413	P.S.I.	
Initial Flow Period	Minutes	30	(B)	84	P.S.I. to (C)	94 P.S.I.
Initial Closed In Period	Minutes	60	(D)	964	P.S.I.	
Final Flow Period	Minutes	45	(E)	137	P.S.I. to (F)	179 P.S.I.
Final Closed In Period	Minutes	90	(G)	964	P.S.I.	
Final Hydrostatic Pressure			(H)	1361	P.S.I.	

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By R W Dahlberg
Signature of Customer or his authorized representative

Western Representative WK Hager Thank You!

FIELD INVOICE

Open Hole Test	$500.00
Misrun	$
Straddle Test	$
Jars	$275.00
Selective Zone	$
Safety Joint	$35.00
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
TOTAL	$810.00

Phone 316 838-0601

WESTERN TESTERS

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

No. 2106

Date 19 Nov 79 Ticket 33285 Company Texas Oil & Gas

Well Name and No. Renner #1 Dst No. 1 Interval Tested 2791-2805

County Sumner State Kansas Sec. 29 Twp. 30S Rg. 2W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
gas to surface in 15 minutes					
20	4.5 lbs	1/4			19,500 cubic feet per day
25	14 lbs	1/4			37,600 " " " "
30	30 lbs	1/4			61,900 cubic feet per day
SECOND FLOW					
5	15 lbs	3/4			331,000 cubic feet per day
10	18 lbs	3/4			370,000 " " " "
15	22 lbs	3/4			424,000 " " " "
20	26 lbs	3/4			473,000 " " " "
25	30 lbs	3/4	S/B 522		510,000 cubic feet per day
30	34 lbs	3/4			569,000 " " " "
35	38 lbs	3/4			617,000 " " " "
40	42 lbs	3/4			662,000 " " " "
45	46 lbs	3/4			708,000 cubic feet per day

RECEIVED
NOV 20 1979

GAS BOTTLE

Serial No. 634 Date Bottle Filled 19 Nov 79 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

Authorized by Fred Dehlberg

FORM WTC 9

WESTERN TESTING CO., INC.
Pressure Data

Date 11-19-79 Test Ticket No. 3325

Recorder No. 1558 Capacity 4200 Location 2996 Ft.

Clock No. — Elevation 1331 KB Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1393 P.S.I.	Open Tool	12:20 PM	
B First Initial Flow Pressure	75 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	71 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	943 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	130 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	167 P.S.I.			
G Final Closed-in Pressure	936 P.S.I.			
H Final Hydrostatic Mud	1362 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	75
P 2 5	54
P 3 10	54
P 4 15	54
P 5 20	55
P 6 25	61
P 7 30	71
P 8 35	
P 9 40	
P10 45	
P11 50	
P12 55	
P13 60	
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	71
3	510
6	837
9	900
12	921
15	930
18	934
21	937
24	940
27	943
30	
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	943

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	130
5	113
10	113 116
15	116
20	122
25	131
30	140
35	149
40	161
45	167
50	
55	
60	
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	167
3	554
6	885
9	914
12	924
15	929
18	932
21	934
24	
27	
30	
33	
36	
39	
42	
45	
48	934
51	936
54	
57	
60	936

WTC - 4

(cont

WESTERN TESTING CO., INC.
Pressure Data

Test Ticket No. 3325

rder No. _____ Capacity _____ Location _____ F

c No. _____ Elevation _____ Well Temperature _____

lt	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	_____ P.S.I.	Open Tool	_____ M	_____
First Initial Flow Pressure	_____ P.S.I.	First Flow Pressure	_____ Mins.	_____ Mir
First Final Flow Pressure	_____ P.S.I.	Initial Closed-in Pressure	_____ Mins.	_____ Mir
Initial Closed-in Pressure	_____ P.S.I.	Second Flow Pressure	_____ Mins.	_____ Mir
Second Initial Flow Pressure	_____ P.S.I.	Final Closed-in Pressure	_____ Mins.	_____ Mir
Second Final Flow Pressure	_____ P.S.I.			
Final Closed-in Pressure	_____ P.S.I.			
Final Hydrostatic Mud	_____ P.S.I.			

PRESSURE BREAKDOWN

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

nt ıs.	Press.

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

Point Minutes	Press.
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

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

Point Minutes	Press.

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

Point Minutes	Press.
63	936
66	
69	
72	
75	
78	
81	
84	
87	
90	936
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

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

Elevation 1331 Kelly Bushing — Formation Stalnaker — Effective Pay ---- Ft. — Ticket No. 3325

Date 11/19/79 — Sec. 29 — Twp. 30S — Range 2W — County Sumner — State Kansas

Test Approved by K. W. Dahlberg — Western Representative W. K. Hager

Formation Test No. 1 — Interval Tested from 2791 ft. to 2805 ft. — Total Depth 2805 ft.

Packer Depth 2786 ft. — Size 6 3/4 in. — Packer Depth -- ft. — Size -- in.

Packer Depth 2791 ft. — Size 6 3/4 in. — Packer Depth -- ft. — Size -- in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 2796 ft. — Recorder Number 1558 — Cap. 4200

Bottom Recorder Depth (Outside) 2799 ft. — Recorder Number 1559 — Cap. 4200

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

Drilling Contractor Slawson Drilling Rig #4 — Drill Collar Length 373 — I. D. 2¼ in.

Mud Type premix — Viscosity 45 — Weight Pipe Length - — I. D. - in.

Weight 9.2 — Water Loss 40 cc. — Drill Pipe Length 2390 — I. D. 3.8 in.

Chlorides 26,000 salt P.P.M. — Test Tool Length 42 ft. — Tool Size 5½ in.

Jars: Make WTC — Serial Number 401 — Anchor Length 14 ft. — Size 5½ in.

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

Main Hole Size 7 7/8 in. — Tool Joint Size 4½FH in.

Blow: Strong blow;gas to surface in fifteen minutes. See attached sheet for gas measurements.

Recovered 270 ft. of muddy water

Recovered ft. of

Recovered ft. of

Recovered ft. of TIGHT HOLE

Recovered ft. of

Remarks:

Time Set Packer(s) 12:20 ~~A.M.~~ P.M. — Time Started Off Bottom 4:05 ~~A.M.~~ P.M. — Maximum Temperature 110°

Initial Hydrostatic Pressure ..... (A) 1393 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 75 P.S.I. to (C) 71 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 943 P.S.I.

Final Flow Period ..... Minutes 45 (E) 130 P.S.I. to (F) 167 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 936 P.S.I.

Final Hydrostatic Pressure ..... (H) 1362 P.S.I.

GAS FLOW REPORT

Date 11/19/79 Ticket 3325 Company Texas Oil & Gas Corporation

Well Name and No. Renner #1 Dst No. 1 Interval Tested 2791'-2805'

County Sumner State Kansas Sec. 29 Twp. 30S Rg. 2W

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 in 15 minutes.						
20 min.	4.5 lbs.	1/4" orifice				19,500 CFPD
25 min.	14 lbs.	1/4" orifice				37,600 CFPD
30 min.	30 lbs.	1/4" orifice				61,900 CFPD
SECOND FLOW						
5 min.	15 lbs.	3/4" orifice				331,000 CFPD
10min..	18 lbs.	3/4" orifice				370,000 CFPD
15min.	22 lbs.	3/4" orifice				424,000 CFPD
20 min.	26 lbs.	3/4" orifice				473,000 CFPD
25 min.	30 lbs.	3/4" orifice				522,000 CFPD
30 min.	34 lbs.	3/4" orifice				569,000 CFPD
35 min.	38 lbs.	3/4" orifice				617,000 CFPD
40 min.	42 lbs.	3/4" orifice				662,000 CFPD
45 min.	46 lbs.	3/4" orifice				708,000 CFPD

GAS BOTTLE

Serial No. 634 Date Bottle Filled 11/19/79 Date to be Invoiced 11/19/79

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 1½% per month, equal to 18% 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 6

WESTERN TESTING CO., INC.

Pressure Data

Date 11/19/79 Test Ticket No. 3325

Recorder No. 1558 Capacity 4200 Location 2796 Ft.

Clock No. --- Elevation 1331 Kelly Bushing Well Temperature 110 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1393 P.S.I.		Open Tool	12:20P M	
B	First Initial Flow Pressure	75 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	71 P.S.I.		Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	943 P.S.I.		Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	130 P.S.I.		Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	167 P.S.I.				
G	Final Closed-in Pressure	936 P.S.I.				
H	Final Hydrostatic Mud	1362 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	75
P 2 5	54
P 3 10	54
P 4 15	54
P 5 20	55
P 6 25	61
P 7 30	71
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	71
3	510
6	837
9	900
12	921
15	930
18	934
21	937
24	940
27	943
30	943
33	943
36	943
39	943
42	943
45	943
48	943
51	943
54	943
57	943
60	943

Second Flow Pressure

Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	130
5	113
10	113
15	116
20	122
25	131
30	140
35	149
40	161
45	167

Final Shut-In

Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	167
3	554
6	885
9	914
12	924
15	929
18	932
21	934
24	934
27	934
30	934
33	934
36	934
39	934
42	934
45	934
48	934
51	936
54	936
57	936
60	936

continued next page

WESTERN TESTING CO., INC.
Pressure Data

Date 11/19/79 Test Ticket No. 3325

Recorder No. 1558 Capacity 4200 Location 2796 Ft.

Clock No. --- Elevation 1331 Kelly Bushing Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1393 P.S.I.	Open Tool	12:20P M	
B First Initial Flow Pressure	75 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	71 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	943 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	130 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	167 P.S.I.			
G Final Closed-in Pressure	936 P.S.I.			
H Final Hydrostatic Mud	1362 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: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

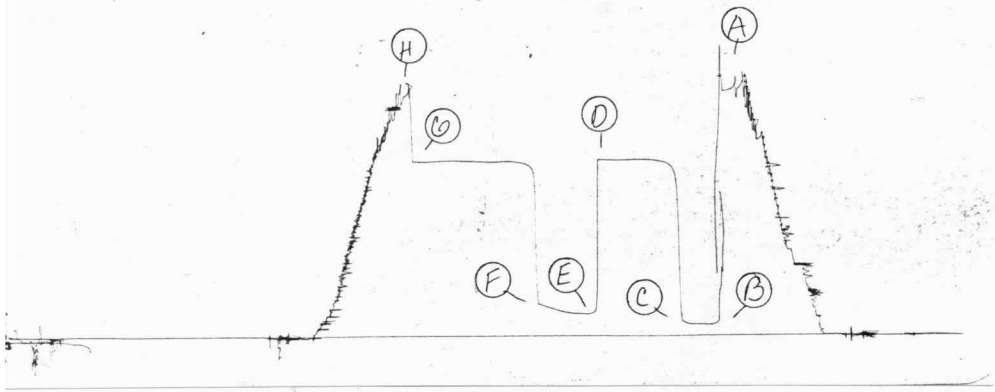
Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	936
P 2						66	936
P 3						69	936
P 4						72	936
P 5						75	936
P 6						78	936
P 7						81	936
P 8						84	936
P 9						87	936
P10						90	936
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WTC - 4

TH#3325
I



155

TH#3325
O