WESTERN

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

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

Elevation 1450 Kelly Bush Formation Douglas Sand Effective Pay - Ft. Ticket No. 22606

Date 9-16-77 Sec. 30 Twp. 32S Range 8W County Harper State Kansas

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

Formation Test No. 1 O.K. X Misrun - Interval Tested From 3402' to 3460' Total Depth 3460'

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 3397 Ft. Size 6 3/4 Bottom Packer Depth 3402 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 58 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3416 Ft. Clock No. 8475 Depth 3419 Ft. Clock No. 9227

Top Make Kuster Cap. 3150 No. 1562 Inside = Outside Bottom Make Kuster Cap. 3200 No. 1561 Inside = Outside

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

Time Set Packer 7:17A M

Tool Open I.F.P. From 7:20A M. to 7:50A M. - Hr. 30 Min. From (B) 267 P.S.I. To (C) 710 P.S.I.

Tool Closed I.C.I.P. From 7:50A M. to 8:50A M. - Hr. 60 Min (D) 1495 P.S.I.

Tool Open F.F.P. From 8:50A M. to 9:35A M. - Hr. 45 Min. From (E) 665 P.S.I. To (F) 732 P.S.I.

Tool Closed F.C.I.P. From 9:35A M. to 11:05A M. - Hr. 90 Min. (G) 1485 P.S.I.

Initial Hydrostatic Pressure (A) 1700 P.S.I. Final Hydrostatic Pressure (H) 1647 P.S.I. Maximum Temp. 112

INFORMATION

BLOW Very strong blow throughout test. Gas to surface in 3 minutes. Flowed mud in 25 minutes on initial flow period. See attached sheet for gas measureme

Did Well Flow - Yes X No Recovery Total Ft. Fluid recovery: 15 condensate (50% slightly muddy salt water) 65' total fluid (water checked 48,000 p.p.m. chlorieds)

Reversed Out - Yes X No Mud Type Chem Viscosity 39 Weight 9.3 Water Loss 69.6 cc. Chlorides 30,000 p.p.m.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint W.T.C. 4½ - 3½ IF Jars: Size 4½ - 3½ IF In. Make W.T.C. Ser. No. 406

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

DRILLING CONTRACTOR H-30 #5 Length Drill Pipe? 3376 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 - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 84 Ft.

Remarks: Slid tool 10' to bottom. Filled gas sample bottle #624.
Pressures read from recorder 1561

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

GAS FLOW REPORT

Date 9-16-77 Ticket 22606 Company Texas Oil & Gas Corp.

Well Name and No. Antrim #1 Dst No. 1 Interval Tested 3402' - 3460'

County Harper State Kansas Sec. 30 Twp. 32S Rg. 8W

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
Gas To surface in 3 minutes.		**PRE FLOW**				
7:25AM	0 min	20 PSIG	1¼" orifice			725,000 C.F.P.D.
7:30AM	5 min	20 PSIG	1¼" orifice			1,233,000 C.F.P.D.
7:35AM	10 min	40 PSIG	1¼" orifice			1,980,000 C.F.P.D.
7:40AM	15 min	53 PSIG	1¼" orifice			2,449,000 C.F.P.D.
7:45AM	20 min	60 PSIG	1¼" orifice			2,702,000 C.F.P.D.
7:50AM	25 min	65 PSIG	1¼" orifice			2,883,000 C.F.P.D.
Changed to Walter Reed side		**SECOND FLOW**				static Tester Final flow period.
8:50AM	0 min	8 lbs	2" orifice			2,060,000 C.F.P.D.
8:55AM	5 min	27 lbs	2" orifice			3,970,000 C.F.P.D.
9:00AM	10 min	38 lbs	2" orifice			5,020,000 C.F.P.D.
9:05AM	15 min	35 lbs	2" orifice			4,720,000 C.F.P.D.
9:10AM	20 min	34 lbs	2" orifice			4,640,000 C.F.P.D.
9:15AM	25 min	34 lbs	2" orifice			4,640,000 C.F.P.D.
9:20AM	30 min	34 lbs	2" orifice			4,640,000 C.F.P.D.
9:25AM	35 min	34 lbs	2" orifice			4,640,000 C.F.P.D.
9:30AM	40 min	34 lbs	2" orifice			4,640,000 C.F.P.D.
9:35AM	45 min	34 lbs	2" orifice			4,640,000 C.F.P.D.
Stabilized at 4,640,000 C.F.P.D. in 20 minutes on final flow period.						

GAS BOTTLE

Serial No. 624 Date Bottle Filled 9-16-77 Date to be Invoiced 9-16-77

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 Corp.

Authorized by K. W. Dahlberg

FORM WTS 8

WESTERN TESTING CO., INC.
Pressure Data

Date 9-16-77 Test Ticket No. 22606

Recorder No. 1562 Capacity 3150 Location 3416 Ft.

Clock No. 8475 Elevation 1450 Kelly Bushing Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1700 P.S.I.	Open Tool	7:17A M	
B First Initial Flow Pressure	267 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	710 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1495 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	665 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	732 P.S.I.			
G Final Closed-in Pressure	1485 P.S.I.			
H Final Hydrostatic Mud	1647 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	267
P 2 5	320
P 3 10	448
P 4 15	472
P 5 20	599
P 6 25	692
P 7 30	710
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	710
3	1481
6	1488
9	1490
12	1492
15	1494
18	1494
21	1494
24	1494
27	1494
30	1494
33	1494
36	1494
39	1494
42	1494
45	1495
48	1495
51	1495
54	1495
57	1495
60	1495

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

Point Minutes	Press.
0	665
5	709
10	732
15	723
20	712
25	713
30	716
35	719
40	730
45	732

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

Point Minutes	Press.
0	732
3	1469
6	1477
9	1479
12	1481
15	1482
18	1483
21	1483
24	1483
27	1483
30	1484
33	1484
36	1484
39	1485
42	1485
45	1485
48	1485
51	1485
54	1485
57	1485

WESTERN TESTING CO., INC.
Pressure Data

Date 9-16-77 Test Ticket No. 22606

Recorder No. 1562 Capacity 3150 # Location 3416 Ft.

Clock No. 8475 Elevation 1450 Kelly Bushing Well Temperature 112 °F

Point		Pressure		Time Given		Time Computed	
A	Initial Hydrostatic Mud	1700 P.S.I.	Open Tool	7:17A	M		
B	First Initial Flow Pressure	267 P.S.I.	First Flow Pressure	30	Mins.	30	Mins.
C	First Final Flow Pressure	710 P.S.I.	Initial Closed-in Pressure	60	Mins.	60	Mins.
D	Initial Closed-in Pressure	1495 P.S.I.	Second Flow Pressure	45	Mins.	45	Mins.
E	Second Initial Flow Pressure	665 P.S.I.	Final Closed-in Pressure	90	Mins.	90	Mins.
F	Second Final Flow Pressure	732 P.S.I.					
G	Final Closed-in Pressure	1485 P.S.I.					
H	Final Hydrostatic Mud	1647 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						60	1485
P 2						63	1485
P 3						66	1485
P 4						69	1485
P 5						72	1485
P 6						75	1485
P 7						78	1485
P 8						81	1485
P 9						84	1485
P10						87	1485
P11						90	1485
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WESTERN TESTING CO., INC.

Pressure Data

Date 9-16-77 Test Ticket No. 22606

Recorder No. 1562 Capacity 3150 Location 3416 Ft.

Clock No. 8475 Elevation 1450 Kelly Bushing Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1700 P.S.I.	Open Tool	7:17A M	
B First Initial Flow Pressure	267 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	710 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1495 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	665 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	732 P.S.I.			
G Final Closed-in Pressure	1485 P.S.I.			
H Final Hydrostatic Mud	1647 P.S.I.			

PRESSURE BREAKDOWN

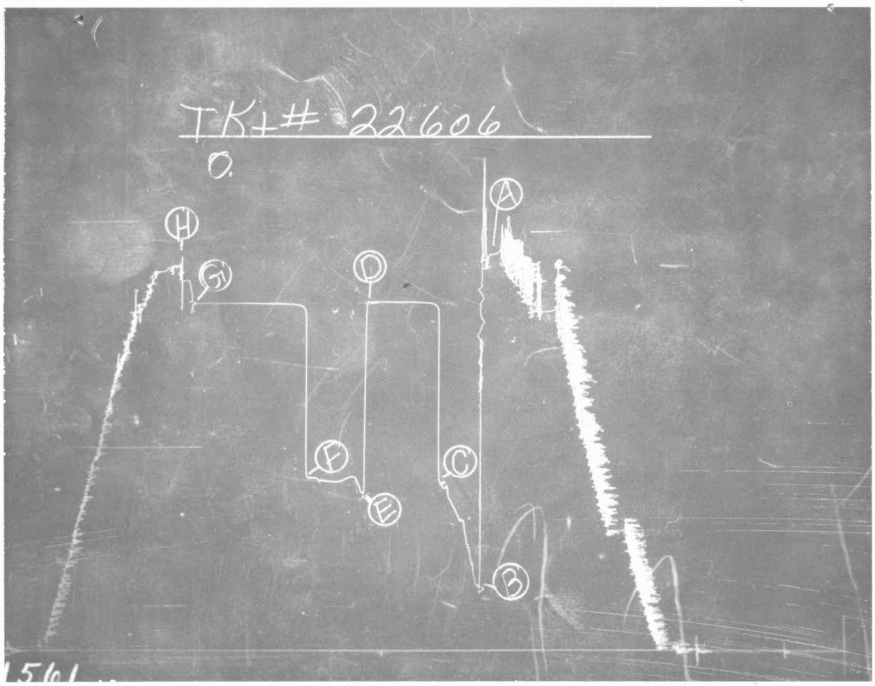
First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

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						60	1485
P 2						63	1485
P 3						66	1485
P 4						69	1485
P 5						72	1485
P 6						75	1485
P 7						78	1485
P 8						81	1485
P 9						84	1485
P10						87	1485
P11						90	1485
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							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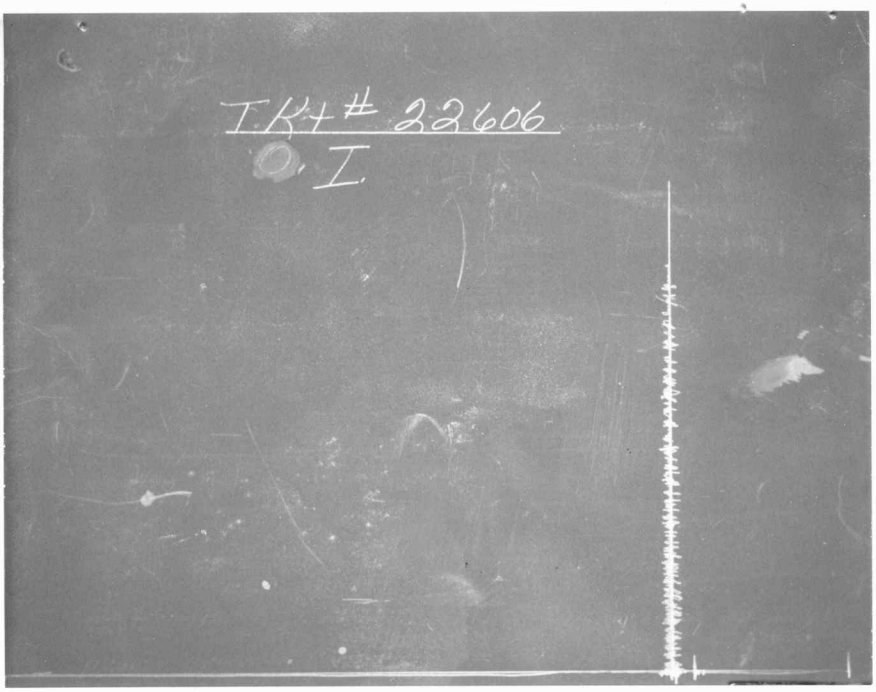

I.K.# 22606
O. I.

WESTERN TESTERS

P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

orange & white

WESTERN TESTING CO., INC.
FORMATION TESTING
TICKET 22606

Formation Douglas sd. Elevation 1450 KB Eff. Pay ____ Ft.

District Augusta Date 9-16-77 Customer Order No. Alt. Hal Bro

COMPANY NAME Texas Oil & Gas Corp. Wichita, Kans. 6720.

ADDRESS 2700 Fidelity Union Tower Dallas, Tex. 75201 & 200 W. Douglas, Suite 300

LEASE AND WELL NO. Antrim #1 COUNTY Harper STATE Kans. Sec. 30 Twp. 32S Rge. 8W

Mail Inv. To 4 Wichita Ks. No. Copies Requested Usual
Co. Name Address

Mail Charts To 4 to Wichita and one to Dallas No. Copies Requested Usual
Address

Formation Test No. 1 O.K. X Misrun — Interval Tested From 3402' to 3460' Total Depth 3460'

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 3397 Ft. Size 6 3/4 Bottom Packer Depth 3402 Ft. Size 6 3/4

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

Tool Size 5 1/2 Tool Joint Size 4 1/2 FH Anchor Length 58 Ft. Size 5 1/2 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3416 Ft. Clock No. 8425 Depth 3419 Ft. Clock No. 9227

Top Make Kuster Cap. 3150 No. 1562 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 Inside Outside

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

Time Set Packer 7:17 a M

Tool Open I.F.P. From	7:20 a M. to	7:50 a M.	— Hr. 30 Min.	From (B)	274 267 P.S.I.	To (C)	722 710 P.S.I.
Tool Closed I.C.I.P. From	7:50 a M. to	8:50 a M.	— Hr. 60 Min.	(D)	1500 1495 P.S.I.		
Tool Open F.F.P. From	8:50 a M. to	9:35 a M.	— Hr. 45 Min.	From (E)	677 665 P.S.I.	To (F)	740 732 P.S.I.
Tool Closed F.C.I.P. From	9:35 M. to	11:05 a M.	— Hr. 90 Min.	(G)	1500 1485 P.S.I.		

Initial Hydrostatic Pressure (A) 1700 1700 P.S.I. Final Hydrostatic Pressure (H) 1670 1647 P.S.I. Maximum Temp. 112

INFORMATION

BLOW Very strong blow Gas to surface in 3 min. Flowed mud in 25 min. I.F.P. period was initial flow

See sheet attached for gas measurements

Did Well Flow X Yes — No Recovery Total Ft. Fluid Rec.: 15 condensate (5% Slightly muddy saltwater)

652 total fluid (Water checked 48,000 PPM Chlorides)

Reversed Out — Yes — No Mud Type Chem Viscosity 39 Weight 9.3 Water Loss 69.6 cc. Chlorides 30,000

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint WTC 4 1/2-3 1/2 IF Jars: Size 4 1/2-3 1/2 IF In. Make WTC Ser. No. 406

Dual Packers Yes Did Packers Hold? Yes Did Tool Plug? No Where? —

DRILLING CONTRACTOR 4-30 #3 Length Drill Pipe 3376 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH

Length Weight Pipe — ft. I.D. Weight Pipe — In. Tool Joint Size — In. Length Drill Collars — ft. I.D. Drill Collars — In.

Tool Joint Size — In. Length D.S.T. Tool 84 ft.

Remarks Slid tool 10' to bottom
Filled Gas Sample Bottle #624 Gas Flow Report #434 attached

Press Rec. #1561

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage 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, or 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 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Disc 11.70

INVOICE SECTION

Open Hole Test	$ 380 00
Straddle Test	$
Jars	$ 175 00
Selective Zone	$
Safety Joint	$ 30 00
Misrun	$
Evaluation	$
Packer	$
Circ. Sub.	$
	$
Total	$ 585 00

Test Approved By T W Dahlberg
Signature of Customer or his Authorized Representative

Western Representative Tim Wilson

Operator's Time Norman Allen Hrs.

Phone 316 262-5861
316 838-0601

WESTERN TESTERS

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

No. 434

Date 9-16-77 Ticket 22606 Company Texas Oil & Gas Corp.

Well Name and No. Antrim #1 Dst No. 1 Interval Tested 3402 - 3460

County Harper State Kans. Sec. 30 Twp. 32 S Rg. 8 W

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 7:20 A.M.~~ Gas to surface 3 min.				**PRE FLOW**		5 min. preflow
a.m. 7:25	0 min	20 # PSIG	" orifice	~~Flowed Mud~~		725,000 CFPD
7:30	5 min	20 #	1¼" orifice	~~25 min.~~		1,233,000 " "
7:35	10 "	40 #	1¼" orifice			1,980,000 " "
7:40	15	53 #	1¼" orifice	~~I.F.P.~~		2,449,000 " "
7:45	20	60 #	1¼" orifice			2,702,000 " "
7:50	25	65 #	1¼" orifice			2,883,000 " "
~~I.C.I.P. 60 min~~				**SECOND FLOW**		Changed to Walter Reed side static Tester F.F.P.
a.m. 8:50	0 min			8 # PSIG	2" orifice	2,060,000 CFPD
8:55	5	Flowed In		27 #		3,970,000 " "
9:00	10			38 #		5,020,000
9:05	15			35 #		4,720,000
9:10	20			34 #		4,640,000
9:15	25			34 #		4,640,000
9:20	30			34 #		4,646,000
9:25	35			34 #		4,640,000
9:30	40			34 #		4,640,000
9:35	45			34 #		4,640,000
		Stabilized	at	4,640,000 CFPD		in 20 min F.F.P.

GAS BOTTLE

Serial No. 624 Date Bottle Filled 9-16-77 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 Corp

Authorized by K. W. Dahlberg

FORM WTC 9

WESTERN TESTING CO., INC.
Pressure Data

Date 9-16-77 Test Ticket No. 22606

Recorder No. 1562 Capacity 3150 Location 3416 Ft.

Clock No. 8475 Elevation 1450 Kelly Bushing Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1700 P.S.I.	Open Tool	7:17A M	
B First Initial Flow Pressure	267 P.S.I.	First Flow Pressure	~~30~~ Mins.	30 Mins.
C First Final Flow Pressure	710 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1495 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	665 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	732 P.S.I.			
G Final Closed-in Pressure	1485 P.S.I.			
H Final Hydrostatic Mud	1647 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	267
P 2 5	320
P 3 10	448
P 4 15	472
P 5 20	599
P 6 25	692
P 7 30	710
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	710
3	1481
6	1488
9	1490
12	1492
15	1494
18	1494
21	
24	
27	
30	
33	
36	
39	
42	1494
45	1495
48	
51	
54	
57	
60	1495

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

Point Minutes	Press.
0	665
5	709
10	732
15	723
20	712
25	713
30	716
35	719
40	730
45	732
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	732
3	1469
6	1477
9	1479
12	1481
15	1482
18	1483
21	1483
24	1483
27	1483
30	1484
33	1484
36	1484
39	1485
42	1485
45	1485
48	1485
51	
54	
57	
60	1485

Cont'd on next page

WESTERN TESTING CO., INC.
Pressure Data

Date _____ Test Ticket No. _____

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ 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		0		0		~~3~~	~~E~~
P 2 5		3		5		63	1485
P 3 10		6		10		66	
P 4 15		9		15		69	
P 5 20		12		20		72	
P 6 25		15		25		75	
P 7 30		18		30		78	
P 8 35		21		35		81	
P 9 40		24		40		84	
P10 45		27		45		87	
P11 50		30		50		90	1485
P12 55		33		55		33	
P13 60		36		60		36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

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

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

Elevation 1450 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 22732

Date 9-20-77 Sec. 30 Twp. 32S Range 8W County Harper State Kansas

Test Approved by K. W. Dahlberg Western Representative Joe N. Lusk

Formation Test No. 2 O.K. X Misrun - Interval Tested From 4417' to 4440' Total Depth 4440'

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

Top Packer Depth 4412 Ft. Size 6 3/4 Bottom Packer Depth 4417 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 23 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4424 Ft. Clock No. 10168 Depth 4427 Ft. Clock No. 6894

Top Make Kuster Cap. 4150 No. 969 Inside ~~Outside~~ Bottom Make Kuster Cap. 4400 No. 2603 ~~Inside~~ Outside

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

Time Set Packer 2:38A M

Tool Open I.F.P. From 2:40A M. to 3:10A M. - Hr. 30 Min. From (B) 195 P.S.I. To (C) 170 P.S.I.

Tool Closed I.C.I.P. From 3:10A M. to 4:10A M. - Hr. 60 Min (D) 1684 P.S.I.

Tool Open F.F.P. From 4:10A M. to 4:55A M. - Hr. 45 Min. From (E) 166 P.S.I. To (F) 157 P.S.I.

Tool Closed F.C.I.P. From 4:55A M. to 6:25A M. - Hr. 90 Min. (G) 1681 P.S.I.

Initial Hydrostatic Pressure (A) 2319 P.S.I. Final Hydrostatic Pressure (H) 2287 P.S.I. Maximum Temp. 127

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 3 minutes on initial flow period. See attached sheet for gas measurements.

Did Well Flow - Yes X No Recovery Total Ft. 155' total recovery, 93' gas cut mud with trace oil, 62' heavy oil cut mud.

Reversed Out - Yes X No Mud Type Premix Viscosity 46 Weight 9.3 Water Loss 12.8 cc. Chlorides 20,000 p.p.m.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4½OD In. Make W.T.C. Ser. No. -

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

DRILLING CONTRACTOR H-30 Drlg. Rig #5 Length Drill Pipe? 4262 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 125 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4"H-90 Length D.S.T. Tool 53 Ft.

Remarks: Chlorides checked: Top 29,000
Middle 34,000
Percentages : Bottom 4% mud, 39% water, 57% oil.

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

GAS FLOW REPORT

Date 9-20-77 Ticket 22732 Company Texas Oil & Gas Corp.

Well Name and No. Antrim #1 Dst No. 2 Interval Tested 4417' - 4440'

County Harper State Kansas Sec. 30 Twp. 32S Rg. 8W

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						
2:48AM	8 min.	12 lbs.	1" orifice			526,000 C.F.P.D.
2:53AM	13 min.	15 lbs.	1" orifice			603,000 C.F.P.D.
2:58AM	18 min.	16 lbs	1" orifice			627,000 C.F.P.D.
3:03AM	23 min.	16 lbs.	1" orifice			627,000 C.F.P.D.
3:08AM	28 min.	16 lbs.	1" orifice			627,000 C.F.P.D.
Gas to surface in 3 minutes.						
SECOND FLOW						
4:15AM	5 min.	11 lbs.	1" orifice			499,000 C.F.P.D.
4:20AM	10 min.	15 lbs.	1" orifice			603,000 C.F.P.D.
4:25AM	15 min.	16 lbs.	1" orifice			627,000 C.F.P.D.
4:30AM	20 min.	14 lbs.	1" orifice			577,000 C.F.P.D.
4:35AM	25 min.	14 lbs.	1" orifice			577,000 C.F.P.D.
4:40AM	30 min.	12 lbs.	1" orifice			526,000 C.F.P.D.
4:45AM	35 min.	12 lbs.	1" orifice			526,000 C.F.P.D.
4:50AM	40 min.	11 lbs.	1" orifice			499,000 C.F.P.D.
4:55AM	45 min.	10 lbs.	1" orifice			472,000 C.F.P.D.

GAS BOTTLE

Serial No. 639 Date Bottle Filled 9-20-77 Date to be Invoiced 9-20-77

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 Corp.

Authorized by K. W. Dahlberg

WESTERN TESTING CO., INC.
Pressure Data

Date 9-20-77 Test Ticket No. 22732

Recorder No. 969 Capacity 4150 Location 4424 Ft.

Clock No. 10168 Elevation 1450 Kelly Bushing Well Temperature 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2319 P.S.I.	Open Tool	2:38A M	
B First Initial Flow Pressure	195 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	170 P.S.I.	Initial Closed-in Pressure	60 Mins.	45 Mins.
D Initial Closed-in Pressure	1684 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	166 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	151 P.S.I.			
G Final Closed-in Pressure	1681 P.S.I.			
H Final Hydrostatic Mud	2287 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	195
P 2 5	184
P 3 10	176
P 4 15	176
P 5 20	176
P 6 25	174
P 7 30	170
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	170
3	1598
6	1619
9	1630
12	1640
15	1646
18	1655
21	1661
24	1665
27	1669
30	1673
33	1676
36	1678
39	1682
42	1683
45	1684

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

Point Minutes	Press.
0	166
5	164
10	162
15	160
20	158
25	156
30	154
35	153
40	152
45	151

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

Point Minutes	Press.
0	151
3	1544
6	1565
9	1584
12	1596
15	1609
18	1619
21	1630
24	1636
27	1642
30	1646
33	1650
36	1655
39	1657
42	1659
45	1661
48	1663
51	1665
54	1667
57	1669

WESTERN TESTING CO., INC.
Pressure Data

Date 9-20-77 Test Ticket No. 22732

Recorder No. 969 Capacity 4150 Location 4424 Ft.

Clock No. 10168 Elevation 1450 Kelly Bushing Well Temperature 127 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2319	P.S.I.
B	First Initial Flow Pressure	195	P.S.I.
C	First Final Flow Pressure	170	P.S.I.
D	Initial Closed-in Pressure	1684	P.S.I.
E	Second Initial Flow Pressure	166	P.S.I.
F	Second Final Flow Pressure	151	P.S.I.
G	Final Closed-in Pressure	1681	P.S.I.
H	Final Hydrostatic Mud	2287	P.S.I.

	Time Given	Time Computed
Open Tool	2:38A M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	60 Mins.	45 Mins.
Second Flow Pressure	45 Mins.	45 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	
P 2	
P 3	
P 4	
P 5	
P 6	
P 7	
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.

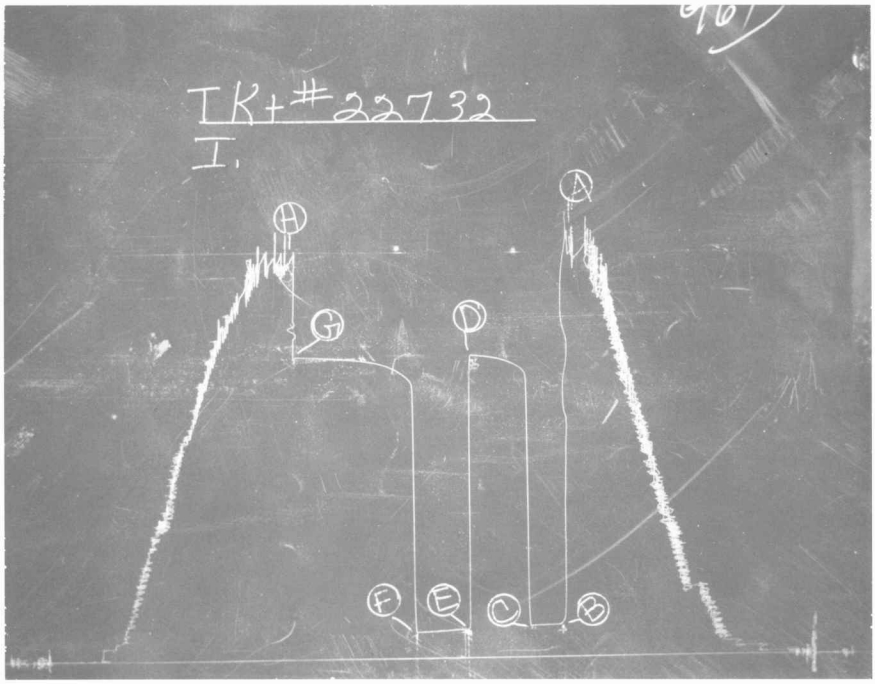
Point Minutes	Press.

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

Point Minutes	Press.

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

Point Minutes	Press.
60	1671
63	1673
66	1674
69	1675
72	1676
75	1677
78	1678
81	1679
84	1680
87	1681
90	1681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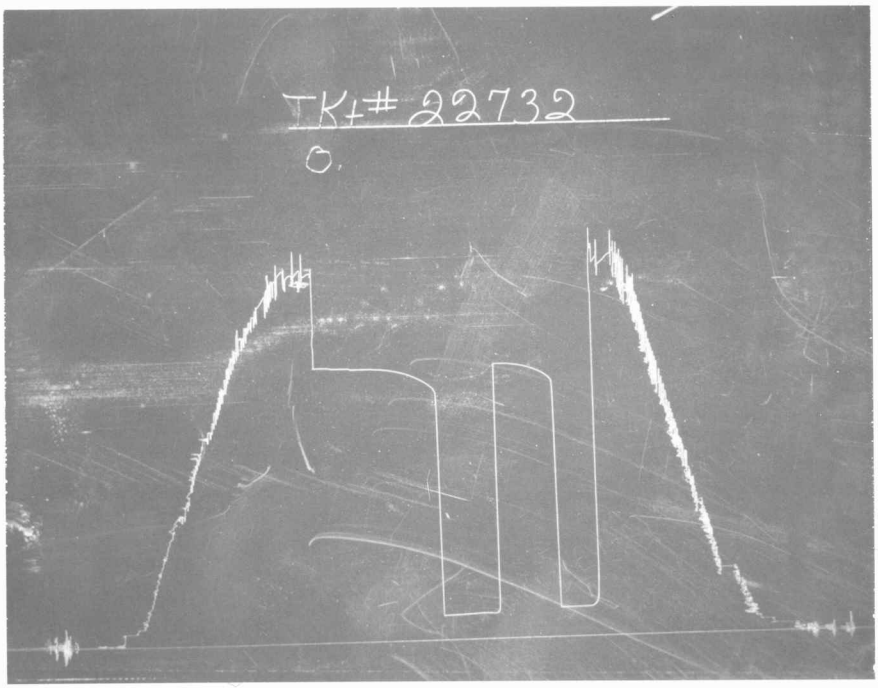
TK# 22732

WESTERN TESTERS

P. O. BOX 793 PHONE 793-7903

GREAT BEND, KANSAS

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET 22732

Formation Miss Chat Elevation 1450 KB Eff. Pay 9 Ft.

District PRATT Date 9-20-77 Customer Order No.

COMPANY NAME TEXAS OIL & GAS CORP.

ADDRESS 200 W. Douglas, Suite 300 Wichita, Ks. 67202

LEASE AND WELL NO. ANTERM #1 COUNTY HARPER STATE KS Sec. 30 Twp. 32S Rge. 8W.

Mail Inv. To Co. Name Address No. Copies Requested

Mail Charts To Address No. Copies Requested

Formation Test No. 2 O.K. X Misrun — Interval Tested From 4417 to 4440 Total Depth 4440

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 4412 Ft. Size 6 3/4 Bottom Packer Depth 4417 Ft. Size 6 3/4

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

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 F-H Anchor Length 23 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS

Top: Depth 4424 Ft. Clock No. 10168 Depth 4427 Ft. Clock No. 6894

Top Make KUSTER Cap. 4500 No. 969 Inside ~~Outside~~ Bottom Make KUSTER Cap. 4400 No. 2603 ~~Inside~~ Outside

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

Time Set Packer 2:38 A M

Tool Open I.F.P. From 2:40 A M. to 3:10 A M. Hr. 30 Min. From (B) 174 195 P.S.I. To (C) 163 170 P.S.I.

Tool Closed I.C.I.P. From 3:10 A M. to 4:10 A M. Hr. 60 Min. (D) 1884 1684 P.S.I.

Tool Open F.F.P. From 4:10 A M. to 4:55 A M. Hr. 45 Min. From (E) 143 166 P.S.I. To (F) 133 151 P.S.I.

Tool Closed F.C.I.P. From 4:55 A M. to 6:25 A M. Hr. 30 Min. (G) 1665 1681 P.S.I.

Initial Hydrostatic Pressure (A) 2221 2319 P.S.I. Final Hydrostatic Pressure (H) 2,221 2287 P.S.I. Maximum Temp. 127°

INFORMATION

BLOW STRONG BLOW ~~I.F.P.~~ - GAS TO SURF. IN 3 MIN. FOR INITIAL ~~BLOW I.F.P.~~ flow period - See ft attached sheet for gas measurements

Did Well Flow — Yes X No Recovery Total Ft. 155 ft. - GAS CUT MUD WITH TRACE OF OIL

62 ft. - HEAVILY OIL CUT MUD.

Reversed Out — Yes X No Mud Type DRISPAC PREMIX Viscosity 46 Weight 9.3 Water Loss 12.8 cc. Chlorides 20,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. PIN Safety Joint X Jars: Size 4 1/2 OD Mn. Make WTC Ser. No. —

Dual Packers X Did Packers Hold? YES Did Tool Plug? NO Where? —

DRILLING CONTRACTOR H-30 DRLG - RIG #5 Length Drill Pipe 4262 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe — ft. I.D. Weight Pipe — In. Tool Joint Size — In. Length Drill Collars 125 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 53 ft.

Remarks Chlorides checked.

@

PERCENTAGES Top 29,000

Middle 34,000

BOTTOM - 40% MUD - ~~BOTTOM~~ 39% WATER - 57% OIL

INVOICE SECTION

Open Hole Test	$ 415.00
Straddle Test	$
Jars	$ 175.00
Selective Zone	$
Safety Joint	$ 30.00
Misrun	$
Evaluation	$
Packer	$
Circ. Sub.	$
	$
Total	$ 620.00

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage 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, or 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 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By T W Dahlberg Signature of Customer or his Authorized Representative

Western Representative Joe N. Lusk

Operator's Time Thank You Hrs.

Phone 316 262-5861
316 838-0601

WESTERN TESTERS

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

No. 941

Date 9-20-77 Ticket 22732 Company TEXAS OIL & GAS CORP

Well Name and No. ANTRIM #1 Dst No. 2 Interval Tested 4417-4450

County HARPER State KS. Sec. 30 Twp. 32S Rg. 8W

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
GAS TO SURF. IN 3 MIN.						**PRE FLOW**
248 AM	8 MIN	12 lbs	1" ORIFICE		PLATE.	526,000 C.F.P.D.
253 AM	13	15				603,000
258 AM	18	16				627,000
303 AM	23	16				627,000
308 AM	28	16				627,000
						SECOND FLOW
415 AM	5 MIN	11 lbs.	1" ORIFICE		PLATE.	499,000 C.F.P.D.
420 AM	10	15 lbs				603,000 C.F.P.D
425 AM	15	16				627,000
439 AM	20	14				577,000
435 AM	25	14				577,000
440 AM	30	12				536,000
445 AM	35	12.				536,000
450 AM	40	11				499,000
455 AM	45	10				472,000

GAS BOTTLE

Serial No. 639 Date Bottle Filled 9-20-77 Date to be Invoiced ~~10-20-77~~ 9-20-77

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 ~~TXO~~ Texas Oil + Gas Corp

Authorized by R W Dahlberg

FORM WTC 9

WESTERN TESTING CO., INC.
Pressure Data

Date 9-20-77 Test Ticket No. 22732

Recorder No. 969 Capacity 4150 Location 4424 Ft.

Clock No. 10168 Elevation 1450 K.B. Well Temperature 127 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2319 P.S.I.		Open Tool	2:38 A M	
B	First Initial Flow Pressure	195 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	170 P.S.I.		Initial Closed-in Pressure	60 Mins.	45 Mins.
D	Initial Closed-in Pressure	1684 P.S.I.		Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	166 P.S.I.		Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	151 P.S.I.				
G	Final Closed-in Pressure	1681 P.S.I.				
H	Final Hydrostatic Mud	2287 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	195
P 2	5	184
P 3	10	176
P 4	15	176
P 5	20	176
P 6	25	174
P 7	30	170
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: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	170
3	1598
6	1619
9	1630
12	1640
15	1646
18	1655
21	1661
24	1665
27	1669
30	1673
33	1676
36	1678
39	1682
42	1683
45	1684
48	
51	
54	
57	
60	

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

Point Minutes	Press.
0	166
5	~~156~~ 164
10	162
15	160
20	158
25	156
30	154
35	153
40	152
45	151
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	151
3	1544
6	1565
9	1584
12	1596
15	1609
18	1619
21	1630
24	1636
27	1642
30	1646
33	1650
36	1655
39	1657
42	1659
45	1661
48	1663
51	1665
54	1667
57	1669
~~60~~	

OVER

WTC - 4

WESTERN TESTING CO., INC.
Pressure Data

Date _____ Test Ticket No. 22732

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	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 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		0		0		60	1671
P 2 5		3		5		63	1673
P 3 10		6		10		66	1674
P 4 15		9		15		69	1675
P 5 20		12		20		72	1676
P 6 25		15		25		75	1677
P 7 30		18		30		78	1678
P 8 35		21		35		81	1679
P 9 40		24		40		84	1680
P10 45		27		45		87	1681
P11 50		30		50		90	1681
P12 55		33		55		33	
P13 60		36		60		36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

WTC - 4