WESTERN TESTING CO., Inc.
P. O. Box 1599
WICHITA, KANSAS
67201

DATE 8-20-77

Well Report No. 23112
Unit No.
District

FOR CUSTOMER'S USE ONLY

Register No.	Voucher No.
Terms Approved	Price Approved
Calculations Checked	
Adjustments	
Accounting Distribution	

CHARGE TO

Texas Oil & Gas Corp.
200 W. Douglas Suite 300
Wichita, Kansas 67202

Your Order No.	Owner	Contractor	Audited	Final Approval

Well No. #1 Farm Johnson-Hunter County Harper Sec. 23 Twp. 31S Range 6W

One drill stem test from 3788' to 3809' (Test #1)	$ 380.00
Jars	175.00
Safety Joint	30.00
	$ 585.00

Posted

Discount	2% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No.
$ 11.70		23112

IN REMITTING PLEASE GIVE OUR INVOICE NUMBER

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

WESTERN TESTERS

P. O. BOX 793 PHONE 793-7903

GREAT BEND, KANSAS

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET 23112

Formation Swope Elevation 1403 KB alg. running Eff. Pay _____ Ft.

District PRATT Date 8-20-77 Customer Order No. _____

COMPANY NAME TEXAS OIL & GAS CORP.

ADDRESS _____

LEASE AND WELL NO. JOHNSON-HUNTER #1 COUNTY HARPER STATE KS. Sec. 23 Twp. 31S Rge. 6W

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

Mail Charts To _____ Address _____ No. Copies Requested _____

Formation Test No. 1 O.K. X Misrun ~~X~~ Interval Tested From 3788' to 3809' Total Depth 3809'

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 3777 Ft. Size 6 3/4 Bottom Packer Depth 3788 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 FH Anchor Length 21 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3795 Ft. Clock No. 5665 Depth 3798 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	10:32 P M.						
Tool Open I.F.P. From	10:34 P M.	to 11:04 P M.	Hr. 30	Min. From (B)	40 42	P.S.I. To (C)	61 65 P.S.I.
Tool Closed I.C.I.P. From	11:04 P M.	to 12:04 P M.	Hr. 00	Min. (D)	1,271 1307		P.S.I.
Tool Open F.F.P. From	12:04 P M.	to 12:49 A M.	Hr. 45	Min. From (E)	71 90	P.S.I. To (F)	92 111 P.S.I.
Tool Closed F.C.I.P. From	12:49 A M.	to 2:19 A M.	Hr. 30	Min. (G)	1,291 1299		P.S.I.
Initial Hydrostatic Pressure (A)	1,853 P.S.I. 1853		Final Hydrostatic Pressure (H)	1,842 1853 P.S.I.		Maximum Temp.	115°

INFORMATION

BLOW WEAK BLOW INCREASING TO STRONG BLOW ON IFP 1/2 min. STRONG BLOW ON FFP 1/2 min.

Did Well Flow — Yes X No Recovery Total Ft. 180 ft. total rec 204 ft 62 ft SLGCM Mud = 120 ft WATER.

Reversed Out — Yes X No Mud Type Premix Viscosity 37 Weight 9.3 Water Loss 44 cc. Chlorides 16,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. P.N. Safety Joint Yes Jars: Size 4 1/2 OD Make WTC Ser. No. 403

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

DRILLING CONTRACTOR H-30 (Rig #3) Length Drill Pipe ~~3380~~ 3567 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 X-H In.

Length Weight Pipe — ft. I.D. Weight Pipe — In. Tool Joint Size — In. Length Drill Collars 186 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 IF In. Length D.S.T. Tool 56 ft.

Remarks Chlorides Checked - ~~Top~~ Middle Bottom 78,000 P.P.M

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

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 K.W. Dahlberg Signature of Customer or his Authorized Representative K.W. Dahlberg

Western Representative Joe N. Lusk

Operator's Time Thanks Joe Hrs.

WESTERN TESTING CO., INC.
Pressure Data

Date 8-20-77 Test Ticket No. 23112

Recorder No. 969 Capacity 4150 Location 3795 Ft.

Clock No. 5665 Elevation 1403 Kelly Bushing Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1853	P.S.I.	Open Tool 10:32 PM	
B First Initial Flow Pressure	42	P.S.I.	First Flow Pressure 30 Mins.	30 Mins.
C First Final Flow Pressure	65	P.S.I.	Initial Closed-in Pressure 60 Mins.	57 Mins.
D Initial Closed-in Pressure	1307	P.S.I.	Second Flow Pressure 45 Mins.	45 Mins.
E Second Initial Flow Pressure	90	P.S.I.	Final Closed-in Pressure 90 Mins.	87 Mins.
F Second Final Flow Pressure	111	P.S.I.		
G Final Closed-in Pressure	1299	P.S.I.		
H Final Hydrostatic Mud	1853	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	42
P 2 5	42
P 3 10	47
P 4 15	51
P 5 20	57
P 6 25	61
P 7 30	65
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: 19 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	65
3	115
6	252
9	818
12	1098
15	1179
18	1214
21	1236
24	1253
27	1263
30	1273
33	1280
36	1286
39	1291
42	1294
45	1298
48	1301
51	1303
54	1306
57	1307
60	

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

Point Minutes	Press.
0	90
5	84
10	86
15	90
20	94
25	98
30	102
35	106
40	108
45	111
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 29 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	111
3	147
6	236
9	473
12	961
15	1123
18	1179
21	1207
24	1226
27	1238
30	1249
33	1255
36	1261
39	1267
42	1271
45	1275
48	1280
51	1282
54	1284
57	1286
60	

Cont'd on next pag

WTC - 4

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

Point Mins.	Press.
P 1 0	
P 2 5	
P 3 10	
P 4 15	
P 5 20	
P 6 25	
P 7 30	
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: _____ Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	
3	
6	
9	
12	
15	
18	
21	
24	
27	
30	
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

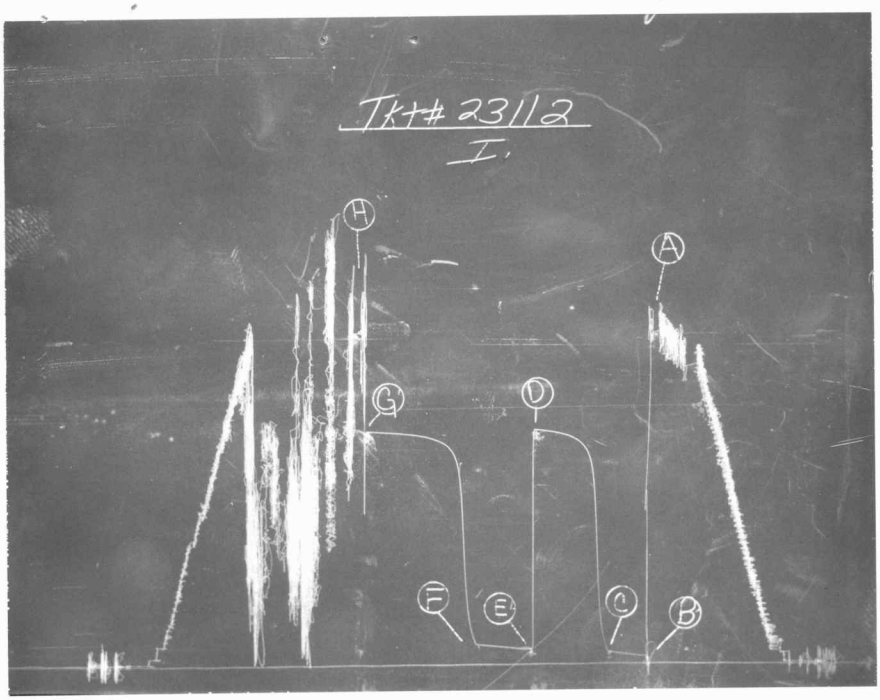
Second Flow Pressure
Breakdown: _____ Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	
5	
10	
15	
20	
25	
30	
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
60	1288
63	1290
66	1291
69	1292
72	1294
75	1295
78	1296
81	1297
84	1298
87	1299
90	
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

WTC - 4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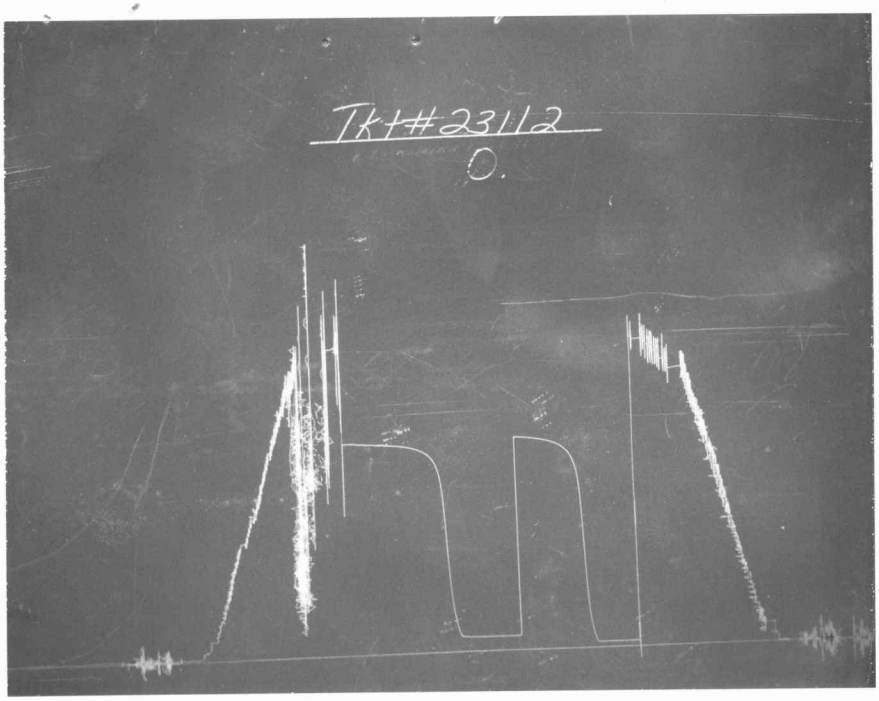

Tk#23112
O.

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

Company Texas Oil & Gas Corp. Lease & Well No. Johnson-Hunter #1

Elevation 1403 Kelly Bush Formation Swope Effective Pay - Ft. Ticket No. 23112

Date 8-20-77 Sec. 23 Twp. 31S Range 6W County Harper State Kansas

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

Formation Test No. 1 O.K. X Misrun - Interval Tested From 3788' to 3809' Total Depth 3809'

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 3777 Ft. Size 6 3/4 Bottom Packer Depth 3788 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 21 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3795 Ft. Clock No. 5665 Depth 3798 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 10:32P M

Tool Open I.F.P. From 10:34P M. to 11:04P M. - Hr. 30 Min. From (B) 42 P.S.I. To (C) 65 P.S.I.

Tool Closed I.C.I.P. From 11:04 M. to 12:04A M. - Hr. 60 Min (D) 1307 P.S.I.

Tool Open F.F.P. From 12:04A M. to 12:49A M. - Hr. 45 Min. From (E) 90 P.S.I. To (F) 111 P.S.I.

Tool Closed F.C.I.P. From 12:49 M. to 2:19A M. - Hr. 90 Min. (G) 1299 P.S.I.

Initial Hydrostatic Pressure (A) 1853 P.S.I. Final Hydrostatic Pressure (H) 1853 P.S.I. Maximum Temp. 115

INFORMATION

BLOW Weak blow increasing to strong blow on initial flow period. Strong blow on final flow period.

Did Well Flow - Yes X No Recovery Total Ft. 180' total recovery, 62' oil and gas cut mud, 120' water.

Reversed Out - Yes X No Mud Type Premix Viscosity 37 Weight 9.3 Water Loss 44 cc. Chlorides 16,000 p.p.m.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4½OD In. Make W.T.C. Ser. No. 403

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

DRILLING CONTRACTOR H-30 (Rig #3) Length Drill Pipe? 3567 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 186 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4½IF In. Length D.S.T. Tool 56 Ft.

Remarks: Chlorides checked; bottom 78,000 p.p.m.

WESTERN TESTING CO., INC.
Pressure Data

Date 8-20-77 Test Ticket No. 23112

Recorder No. 969 Capacity 4150 Location 3795 Ft.

Clock No. 5665 Elevation 1403 Kelly Bushing Well Temperature 115 °F

Point		Pressure			Time Given		Time Computed	
A	Initial Hydrostatic Mud	1853	P.S.I.	Open Tool	10:32P	M		
B	First Initial Flow Pressure	42	P.S.I.	First Flow Pressure	30	Mins.	30	Mins.
C	First Final Flow Pressure	65	P.S.I.	Initial Closed-in Pressure	60	Mins.	57	Mins.
D	Initial Closed-in Pressure	1307	P.S.I.	Second Flow Pressure	45	Mins.	45	Mins.
E	Second Initial Flow Pressure	90	P.S.I.	Final Closed-in Pressure	90	Mins.	87	Mins.
F	Second Final Flow Pressure	111	P.S.I.					
G	Final Closed-in Pressure	1299	P.S.I.					
H	Final Hydrostatic Mud	1853	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	42
P 2 5	42
P 3 10	47
P 4 15	51
P 5 20	57
P 6 25	61
P 7 30	65
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	65
3	115
6	252
9	818
12	1098
15	1179
18	1214
21	1236
24	1253
27	1263
30	1273
33	1280
36	1286
39	1291
42	1294
45	1298
48	1301
51	1303
54	1306
57	1307

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

Point Minutes	Press.
0	90
5	84
10	86
15	90
20	94
25	98
30	102
35	106
40	108
45	111

Final Shut-In
Breakdown: 29 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	111
3	147
6	236
9	473
12	961
15	1123
18	1179
21	1207
24	1226
27	1238
30	1249
33	1255
363	1261
39	1267
42	1271
45	1275
48	1280
51	1282
54	1284
57	1286

Cont. on next page

WESTERN TESTING CO., INC.

Pressure Data

Date 8-20-77 Test Ticket No. 23112

Recorder No. 969 Capacity 4150 Location 3795 Ft.

Clock No. 5665 Elevation 1403 Kelly Bushing Well Temperature 115 °F

Point	Pressure		Time Given		Time Computed	
Initial Hydrostatic Mud	1853 P.S.I.	Open Tool	10:32P	M		
First Initial Flow Pressure	42 P.S.I.	First Flow Pressure	30	Mins.	30	Mins.
First Final Flow Pressure	65 P.S.I.	Initial Closed-in Pressure	60	Mins.	57	Mins.
Initial Closed-in Pressure	1307 P.S.I.	Second Flow Pressure	45	Mins.	45	Mins.
Second Initial Flow Pressure	90 P.S.I.	Final Closed-in Pressure	90	Mins.	87	Mins.
Second Final Flow Pressure	111 P.S.I.					
Final Closed-in Pressure	1299 P.S.I.					
Final Hydrostatic Mud	1853 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: 19 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: 29 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1						60	1288
2						63	1290
3						66	1291
4						69	1292
5						72	1294
6						75	1295
7						78	1296
8						81	1297
9						84	1298
10						87	1299
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

WTC - 4

1 orange
5 white

Texas Oil + Gas Corp
200 W. Douglas Suite 300
Wichita, Kansas 67202

1 orange
1 white
+ Invoice

Texas Oil + Gas Corp
2700 Fidelity Union Tower
Dallas Texas 75201

1 copy

Northern ~~Natural~~ Gas Products
5157 East 51st Str Suite 207
Tulsa, Oklahoma 74135

2 copy

Northern ~~Natural~~ Gas Co.
2223 Dodge
Omaha, Nebraska 68102
Attn: Leo Benal

1 copy

WESTERN TESTING CO., Inc.
P. O. Box 1599
WICHITA, KANSAS
67201

DATE 8-22-77

Well Report No. 23113
Unit No.
District

FOR CUSTOMER'S USE ONLY

Register No.	Voucher No.
Terms Approved	Price Approved
Calculations Checked	
Adjustments	
Accounting Distribution	
Audited	Final Approval

CHARGE TO

Texas Oil & Gas Corp.
200 W. Douglas Suite 300
Wichita, Kansas 67202

Your Order No.	Owner	Contractor

Well No. #1 Farm Bohnson-Hunter County Harper Sec. 23 Twp. 31S Range 6W

One drill stem test from 4262' to 4287' (Test #2) MISRUN	$ 175.00
Jars	175.00
Safety Joint	30.00
	$ 380.00

Posted

Discount	2% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No.
$ 7.60		23113

IN REMITTING PLEASE GIVE OUR INVOICE NUMBER

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

WESTERN TESTERS

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

WESTERN TESTING CO., INC.
FORMATION TESTING
TICKET 12313

Formation Mississippi Elevation 1403 KB Eff. Pay ____ Ft.

District PRATT Date 8-22-77 Customer Order No. ____

COMPANY NAME TEXAS OIL & GAS CORP

ADDRESS ____

LEASE AND WELL NO. JOHNSON-HUNTER #1 COUNTY HARPER STATE KS. Sec. 23 Twp. 31S Rge. 6W

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

Mail Charts To ____ Address ____ No. Copies Requested ____

Formation Test No. 2 O.K. — Misrun X Interval Tested From 4262' to 4287' Total Depth 4287'

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 4251 Ft. Size 6 3/4 Bottom Packer Depth 4262 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 FH Anchor Length 25 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4268 Ft. Clock No. 5665 Depth 4271 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 ____ M

Tool Open I.F.P. From ____ M. to ____ M. ____ Hr. ____ Min. From (B) ____ P.S.I. To (C) ____ P.S.I.

Tool Closed I.C.I.P. From ____ M. to ____ M. ____ Hr. ____ Min. (D) ____ P.S.I.

Tool Open F.F.P. From ____ M. to ____ M. ____ Hr. ____ Min. From (E) ____ P.S.I. To (F) ____ P.S.I.

Tool Closed F.C.I.P. From ____ M. to ____ M. ____ Hr. ____ Min. (G) ____ P.S.I.

Initial Hydrostatic Pressure (A) ____ P.S.I. Final Hydrostatic Pressure (H) ____ P.S.I. Maximum Temp. ____

INFORMATION

BLOW Misrun, see remarks

Did Well Flow — Yes X No Recovery Total Ft. Misrun see remarks

Reversed Out — Yes X No Mud Type Premix Viscosity 37 Weight 9.3 Water Loss 15.2 cc. Chlorides 15,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. ~~Yes~~ P&F Safety Joint Yes Jars: Size 4 1/2 OD In. Make WTC Ser. No. 403

Dual Packers Yes Did Packers Hold? ~~Yes~~ Did Tool Plug? ~~Yes~~ Where? ____

DRILLING CONTRACTOR H-30 Drlg (Rig #3) Length Drill Pipe 4041 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe — ft. I.D. Weight Pipe — In. Tool Joint Size — In. Length Drill Collars 186 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size ~~4 1/2 XH~~ 4 1/2 H-90 In. Length D.S.T. Tool 60 ft.

Remarks Could not get to bottom with tool - packed 600 ft approximately

INVOICE SECTION

Open Hole Test	$ ____
Straddle Test	$ ____
Jars	$ 175.00
Selective Zone	$ ____
Safety Joint	$ 30.00
Misrun	$ 175.00
Evaluation	$ ____
Packer	$ ____
Circ. Sub.	$ ____
	$ ____
Total	$ 380.00

Disc 1.60

COMPANY TERMS

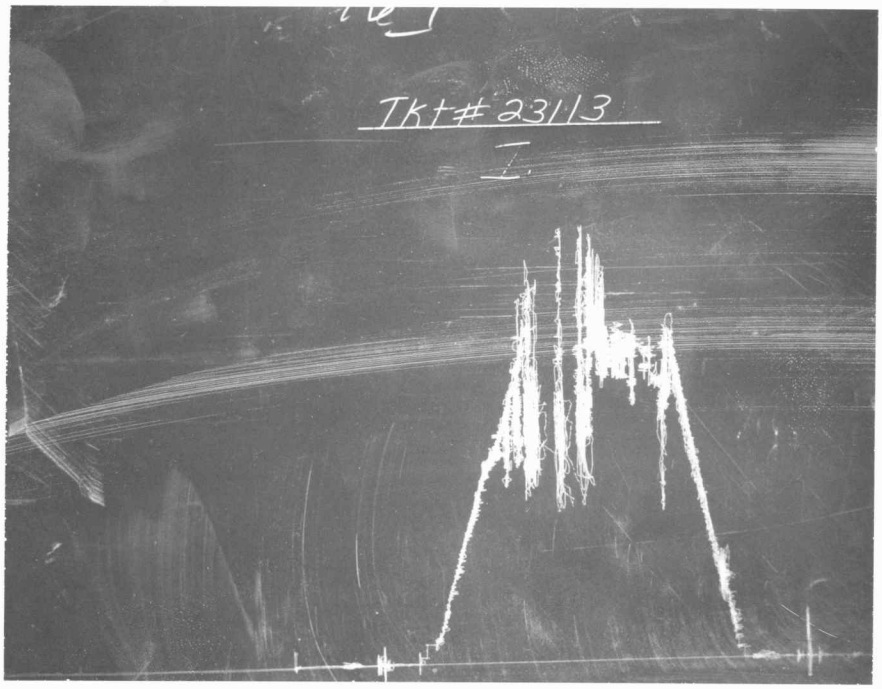
Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost 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 [signature] Signature of Customer or his Authorized Representative

Western Representative Joe J. Lusk

~~Operator's Time~~ [signature] Hr.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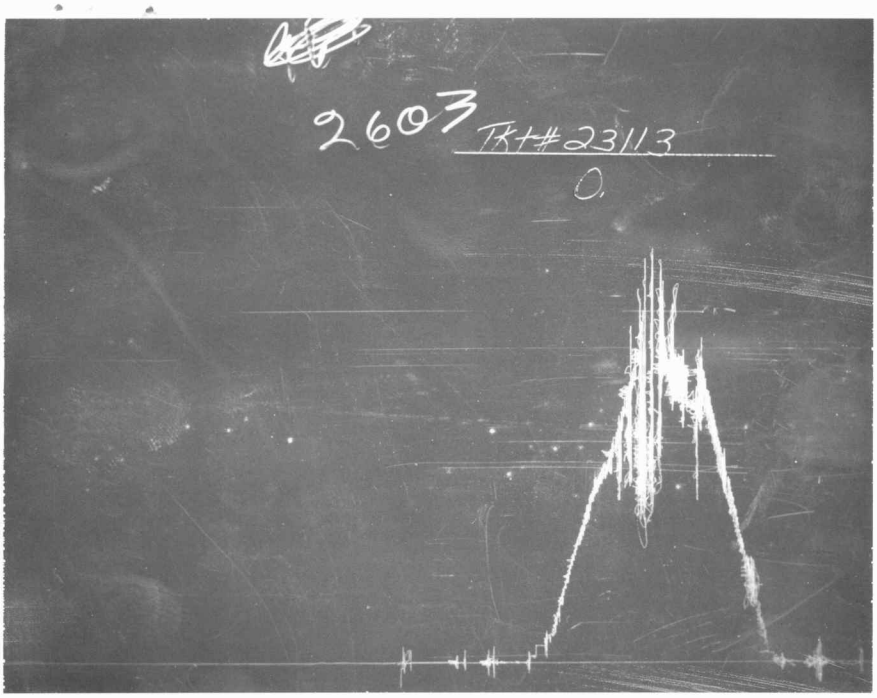

2603 TK# 23113
0.

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

Company Texas Oil & Gas Corp. Lease & Well No. Johnson-Hunter #1

Elevation 1403 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 23113

Date 8-22-77 Sec. 23 Twp. 31S Range 6W County Harper State Kansas

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

Formation Test No. 2 O.K. - Misrun X Interval Tested From 4262' to 4287' Total Depth 4287'

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 4251 Ft. Size 6 3/4 Bottom Packer Depth 4262 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 25 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4268 Ft. Clock No. 5665 Depth 4271 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 M

Tool Open I.F.P. From M. to M. Hr. Min. From (B) P.S.I. To (C) P.S.I.

Tool Closed I.C.I.P. From M. to M. Hr. Min (D) P.S.I.

Tool Open F.F.P. From M. to M. Hr. Min. From (E) P.S.I. To (F) P.S.I.

Tool Closed F.C.I.P. From M. to M. Hr. Min. (G) P.S.I.

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

INFORMATION

BLOW Misrun, See remarks.

Did Well Flow - Yes X No Recovery Total Ft. Misrun, see remarks.

Reversed Out - Yes X No Mud Type Premix Viscosity 37 Weight 9.3 Water Loss 15.2 cc. Chlorides 15,000 p.p.m.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4½OD In. Make W.T.C. Ser. No. 403

Dual Packer Yes Did Packers Hold? - Did Tool Plug? - Where? -

DRILLING CONTRACTOR H-30 Drlg. (Rig #3) Length Drill Pipe? 4041 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 186 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4" H-90 Length D.S.T. Tool 60 Ft.

Remarks: Could not get to bottom with tool. Lacked 600' approximately.

WESTERN TESTING CO., Inc.
P. O. Box 1599
WICHITA, KANSAS
67201

DATE 8-23-77

Well Report No. 23114
Unit No.
District

FOR CUSTOMER'S USE ONLY

Register No.	Voucher No.
Terms Approved	Price Approved
Calculations Checked	
Adjustments	
Accounting Distribution	
Audited	Final Approval

CHARGE TO
Texas Oil & Gas Corp.
200 W. Douglas Suite 300
Wichita, Kansas 67202

Your Order No.	Owner	Contractor

Well No. #1 Farm Johnson-Hunter County Harper Sec. 23 Twp. 31S Range 6W

One drill stem test from 4262' to 4287' (Test #3)	$ 415.00
Jars	175.00
Safety Joint	30.00
	$ 620.00

Discount	2% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No.
$ 12.40		23114

IN REMITTING PLEASE GIVE OUR INVOICE NUMBER

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

WESTERN TESTERS

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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 23114

Formation Mississippi Elevation 1403 Kelly Bushing Eff. Pay ____ Ft.

District PRATT Date 8-23-77 Customer Order No. ____

COMPANY NAME TEXAS OIL & GAS CORP.

ADDRESS ____

LEASE AND WELL NO. JOHNSON-HUNTER #1 COUNTY HARPER STATE KS Sec. 23 Twp. 31 S Rge. 6 W

Mail Inv. To ~~Northern Natural~~ No. Copies Requested ____
Co. Name Address

Mail Charts To ____ No. Copies Requested ____
Address

Formation Test No. 3 O.K. X Misrun — Interval Tested From 4262' to 4287' Total Depth 4287

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 4251 Ft. Size 6 3/4 Bottom Packer Depth 4262 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 FH Anchor Length 25 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4268 Ft. Clock No. 5665 Depth 4271 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 8:13 P M

Tool Open I.F.P. From 8:15 P M. to 8:45 P M. Hr. 30 Min. From (B) 51 ul P.S.I. To (C) 71 100 P.S.I.

Tool Closed I.C.I.P. From 8:45 P M. to 9:45 P M. 1 Hr. 00 Min. (D) 1,571 1594 P.S.I.

Tool Open F.F.P. From 9:45 P M. to 10:30 P M. Hr. 45 Min. From (E) 92 105 P.S.I. To (F) 1331 56 P.S.I.

Tool Closed F.C.I.P. From 10:30 P M. to 12:00 M. 1 Hr. 30 Min. (G) 1,571 1593 P.S.I.

Initial Hydrostatic Pressure (A) 1,989 2008 P.S.I. Final Hydrostatic Pressure (H) 1,989 2008 P.S.I. Maximum Temp. 135°

INFORMATION

BLOW STRONG BLOW throughout TEST - GAS TO SURFACE IN 3 MIN. (9:48) OF F.F.P. See ATTAched Sheet for gas measurements

Did Well Flow — Yes X No Recovery Total Ft. 402 ft - 30 ft Mud. 122 ft. muddy WATER - 248 ft WATER

Reversed Out — Yes X No Mud Type Premix Viscosity 57 Weight 8.9 Water Loss 14.8 cc. Chlorides 5,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. PIN Safety Joint ____ Jars: Size 4 1/2 OD In. Make WTC Ser. No. 403

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

DRILLING CONTRACTOR H 30 DRLG (Rig #3) Length Drill Pipe 4041 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size ____ In.

Length Weight Pipe — ft. I.D. Weight Pipe — In. Tool Joint Size — In. Length Drill Collars 186 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4" H-90 In. Length D.S.T. Tool 60 ft.

Remarks Slide Tool approximately 2 ft. Chlorides checked:
Top 25,000 PPM
Middle 55,000 PPM
Bottom 80,000 PPM

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

Disc 124.00

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. 933

Date 8-23-77 Ticket 23114 Company TEXAS OIL + GAS CORP

Well Name and No. JOHNSON-HUNTER #1 Dst No. 3. Interval Tested 4262'-4287'

County HARPER State KS. Sec. 23 Twp. 31S Rg. 6W.

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							
SECOND FLOW							
GAS TO SURFACE IN 3 MIN (9:48P)							
9:55P	10 MIN	16" OF WATER				4" IN ORFICE PLATE	6,720 C.F.P.D.
10:00P	15 "	26" OF WATER				1 1/4" ORFICE	8,560 C.F.P.D.
10:05P	20 "	26"					8,560 "
10:10P	25 "	26"					8,560 "
10:15P	30 "	26"					8,560 "
10:20P	35 "	26"					8,560 "
10:25P	40 "	28"					8,890 "
10:30P	45 "	30"					9,200 "

GAS BOTTLE

Serial No. — Date Bottle Filled — 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 K. W. Dahlberg

FORM WTC 9

WESTERN TESTING CO., INC.
Pressure Data

Date 8-23-77 Test Ticket No. 23114

Recorder No. 969 Capacity 4150 Location 4268 Ft.

Clock No. 5665 Elevation 1403 Kelly Bushing Well Temperature 135 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2,008 P.S.I.	Open Tool	8:13P M	
B First Initial Flow Pressure	61 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	100 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1594 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	102 P.S.I.	Final Closed-in Pressure	90 Mins.	84 Mins.
F Second Final Flow Pressure	156 P.S.I.			
G Final Closed-in Pressure	1593 P.S.I.			
H Final Hydrostatic Mud	2008 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	61
P 2	5	65
P 3	10	76
P 4	15	84
P 5	20	88
P 6	25	92
P 7	30	100
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	100
3	961
6	1339
9	1453
12	1498
15	1523
18	1542
21	1552
24	1563
27	1569
30	1575
33	1579
36	1583
39	1585
42	1588
45	1590
48	1592
51	1593
54	1594
57	
60	1594

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

Point Minutes	Press.
0	102
5	115
10	121
15	129
20	135
25	141
30	146
35	149
40	154
45	156
50	
55	
60	
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	156
3	1140
6	1372
9	1463
12	1496
15	1517
18	1531
21	1542
24	1550
27	1557
30	1563
33	1567
36	1571
39	1575
42	1577
45	1579
48	1582
51	1584
54	1585
57	1587
60	

Cont'd on next Page

WESTERN TESTING CO., INC.
Pressure Data

Date _____ Test Ticket No. _____

Recorder No. _____ Capacity _____ Location _____ Ft.

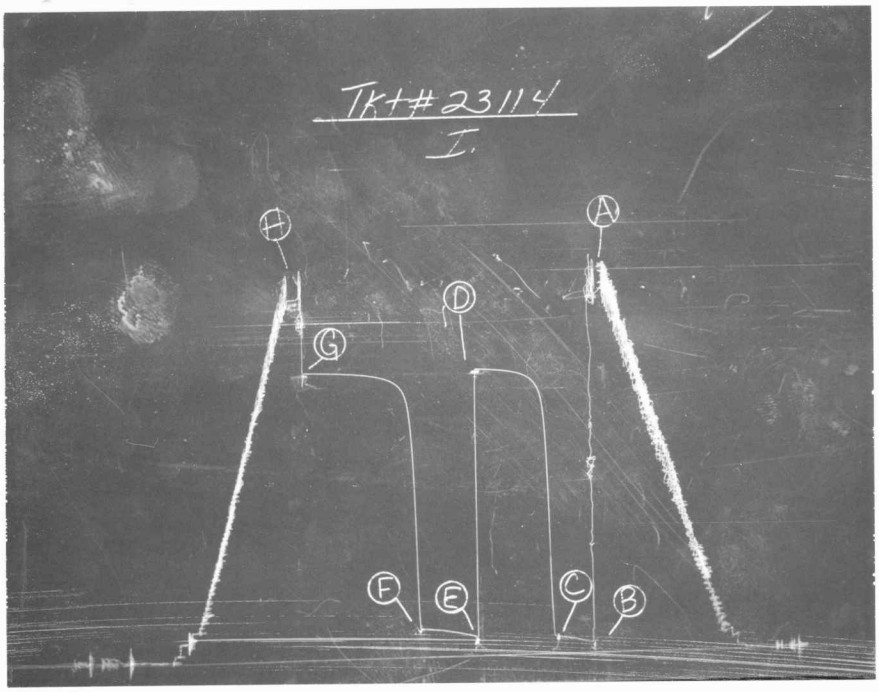
Clock No. _____ Elevation _____ Well Temperature _____ °F

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		60	1588
P 2 5		3		5		63	1589
P 3 10		6		10		66	1590
P 4 15		9		15		69	1591
P 5 20		12		20		72	1592
P 6 25		15		25		75	1593
P 7 30		18		30		78	
P 8 35		21		35		81	
P 9 40		24		40		84	1593
P10 45		27		45		87	
P11 50		30		50		90	
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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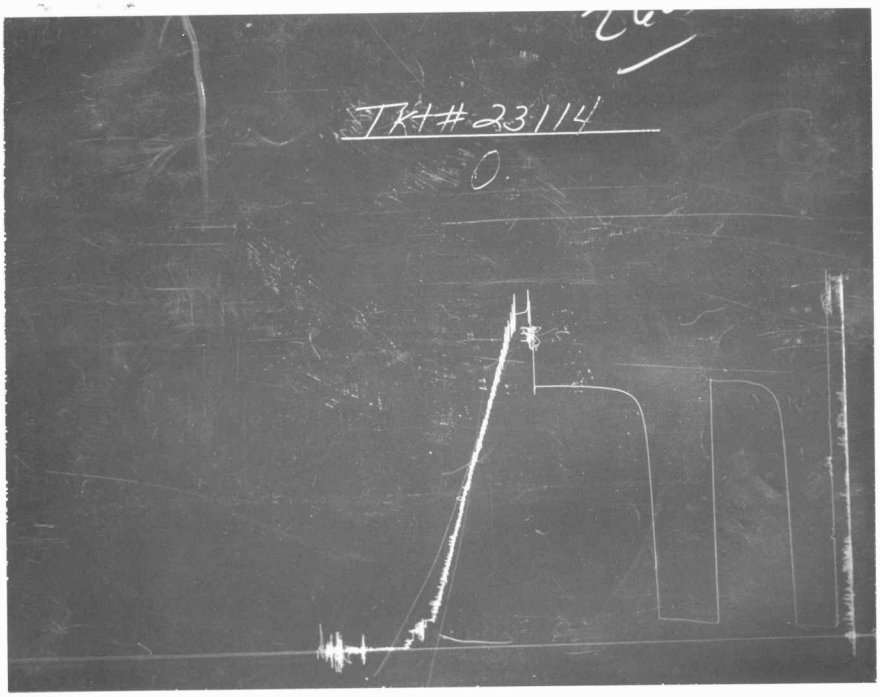

TK#23114
0.

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

Company Texas Oil & Gas Corp. Lease & Well No. Johnson-Hunter #1

Elevation 1403 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 23114

Date 8-23-77 Sec. 23 Twp. 31S Range 6W County Harper State Kansas

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

Formation Test No. 3 O.K. X Misrun - Interval Tested From 4262' to 4287' Total Depth 4287'

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 4251 Ft. Size 6 3/4 Bottom Packer Depth 4262 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 25 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4268 Ft. Clock No. 5665 Depth 4271 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 8:13P M

Tool Open I.F.P. From 8:15P M. to 8:45P M. - Hr. 30 Min. From (B) 61 P.S.I. To (C) 100 P.S.I.

Tool Closed I.C.I.P. From 8:45P M. to 9:45P M. - Hr. 60 Min (D) 1594 P.S.I.

Tool Open F.F.P. From 9:45P M. to 10:30P M. - Hr. 45 Min. From (E) 102 P.S.I. To (F) 156 P.S.I.

Tool Closed F.C.I.P. From 10:30P M. to 12:00P M. - Hr. 90 Min. (G) 1593 P.S.I.

Initial Hydrostatic Pressure (A) 2008 P.S.I. Final Hydrostatic Pressure (H) 2008 P.S.I. Maximum Temp. 135

INFORMATION

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

Did Well Flow - Yes X No Recovery Total Ft. 402' total recovery. 30' mud, 122' muddy water, 248' water.

Reversed Out - Yes X No Mud Type Premix Viscosity 57 Weight 8.9 Water Loss 14.8 cc. Chlorides 5,000 p.p.m.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4½OD In. Make W.T.C. Ser. No. 403

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

DRILLING CONTRACTOR H-30 Drlg. (Rig #3) Length Drill Pipe? 4041 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size - In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 186 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4"H-90 Length D.S.T. Tool 60 Ft.

Remarks: Slide tool approximately 2'. Chlorides checked: Top 25,000 p.p.m.
Middle 55,000 p.p.m.
Bottom 80,000 p.p.m.

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

GAS FLOW REPORT

Date 8-23-77 Ticket 23114 Company Texas Oil & Gas Corp.

Well Name and No. Johnson-Hunter #1 Dst No. 3 Interval Tested 4262' - 4287'

County Harper State Kansas Sec. 23 Twp. 31S Rg. 6W

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						
SECOND FLOW						
9:55P.	10 min.	16" of water		¼" orifice		6,720 C.F.P.D.
10:00P.	15 min.	26" of water		¼" orifice		8,560 C.F.P.D.
10:05P	20 min.	26" of water		¼" orifice		8,560 C.F.P.D.
10:10P	25 min.	26" of water		¼" orifice		8,560 C.F.P.D.
10:15P	30 min.	26" of water		¼" orifice		8,560 C.F.P.D.
10:20P	35 min.	26" of water		¼" orifice		8,560 C.F.P.D.
10:25P	40 min.	28" of water		¼" orifice		8,890 C.F.P.D.
10:30P	45 min.	30" of water		¼" orifice		9,200 C.F.P.D.
Gas to	surface	in 3 minutes				

GAS BOTTLE

Serial No. - Date Bottle Filled - 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

WESTERN TESTING CO., INC.
Pressure Data

Date 8-23-77 Test Ticket No. 23114

Recorder No. 969 Capacity 4150 Kelly Bushing Location 4268 Ft.

Clock No. 5665 Elevation 1403 Kelly Bushing Well Temperature 135 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2008 P.S.I.	Open Tool	8:13P M	
B First Initial Flow Pressure	61 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	100 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1594 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	102 P.S.I.	Final Closed-in Pressure	90 Mins.	84 Mins.
F Second Final Flow Pressure	156 P.S.I.			
G Final Closed-in Pressure	1593 P.S.I.			
H Final Hydrostatic Mud	2008 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 20 Inc.		Breakdown: 9 Inc.		Breakdown: 28 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	61	0	100	0	102	0	156
P 2 5	65	3	961	5	115	3	1140
P 3 10	76	6	1339	10	121	6	1372
P 4 15	84	9	1453	15	129	9	1463
P 5 20	88	12	1498	20	135	12	1496
P 6 25	92	15	1523	25	141	15	1517
P 7 30	100	18	1542	30	146	18	1531
P 8		21	1552	35	149	21	1542
P 9		24	1563	40	154	24	1550
P10		27	1569	45	156	27	1557
P11		30	1575			30	1563
P12		33	1579			33	1567
P13		36	1583			36	1571
P14		39	1585			39	1575
P15		42	1588			42	1577
P16		45	1590			45	1579
P17		48	1592			48	1582
P18		51	1593			51	1584
P19		54	1594			54	1585
P20		57	1594			57	1587
		60	1594				

Cont. on next page

WESTERN TESTING CO., INC.
Pressure Data

Date 8-23-77 Test Ticket No. 23114

Recorder No. 969 Capacity 4150 Location 4268 Ft.

Clock No. 5665 Elevation 1403 Kelly Bushing Well Temperature 135 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2008	P.S.I.	Open Tool	8:13P M	
B	First Initial Flow Pressure	61	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	100	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1594	P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	102	P.S.I.	Final Closed-in Pressure	90 Mins.	84 Mins.
F	Second Final Flow Pressure	156	P.S.I.			
G	Final Closed-in Pressure	1593	P.S.I.			
H	Final Hydrostatic Mud	2008	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: 28 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	1588
P 2						63	1589
P 3						66	1590
P 4						69	1591
P 5						72	1592
P 6						75	1593
P 7						78	1593
P 8						81	1593
P 9						84	1593
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WESTERN TESTING CO., Inc.
P. O. Box 1599
WICHITA, KANSAS
67201

DATE 8-25-77

Well Report No. 23115
Unit No.
District

FOR CUSTOMER'S USE ONLY

Register No.	Voucher No.
Terms Approved	Price Approved
Calculations Checked	
Adjustments	
Accounting Distribution	

CHARGE TO
Texas Oil & Gas Corp.
200 W. Douglas Suite 300
Wichita, Kansas 67202

Your Order No.	Owner	Contractor	Audited	Final Approval

Well No. #1 Farm Johnson-Hunter County Harper Sec. 23 Twp. 31S Range 6W

One drill stem test from 4630' to 4665' (Test #4)	$ 415.00
Jars	175.00
Safety Joint	30.00
	$ 620.00

Discount	2% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No.
$ 12.40		23115

IN REMITTING PLEASE GIVE OUR INVOICE NUMBER

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

WESTERN TESTERS

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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 23115

Formation Simpson Elevation 1403KB Eff. Pay ____ Ft.

District PRATT Date 8-25-77 Customer Order No. ____

COMPANY NAME TEXAS OIL & GAS CORP

ADDRESS ____

LEASE AND WELL NO. JOHNSON-HUNTER #1 COUNTY HARPER STATE KS. Sec. 23 Twp. 31S Rge. 6W

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

Mail Charts To ____ Address ____ No. Copies Requested ____

Formation Test No. 4 O.K. X Misrun — Interval Tested From 4630' to 4665' Total Depth 4665

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 4623 Ft. Size 6 3/4 Bottom Packer Depth 4630 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 FH Anchor Length 35 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4655 Ft. Clock No. 5665 Depth 4658 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 8 43 AM

Tool Open I.F.P. From 8 45 AM to 9 15 AM Hr. 30 Min. From (B) 122 129 P.S.I. To (C) 174 205 P.S.I.

Tool Closed I.C.I.P. From 9 15 AM to 10 15 AM Hr. 1 00 Min. (D) 1686 1736 P.S.I.

Tool Open F.F.P. From 10 15 AM to 11 00 AM Hr. 45 Min. From (E) 235 253 P.S.I. To (F) 368 373 P.S.I.

Tool Closed F.C.I.P. From 11 00 AM to 12 30 PM Hr. 1 30 Min. (G) 1686 1732 P.S.I.

Initial Hydrostatic Pressure (A) 2189 2235 P.S.I. Final Hydrostatic Pressure (H) 2210 2230 P.S.I. Maximum Temp. 154°

INFORMATION

BLOW Strong Blow I.F.P. GAS TO Surface 8 min. See Attached Sheet F.F. FAIR BLOW ON F.F. (WAS S.T. Able To Gauge GAS)

Did Well Flow — Yes X No Recovery Total Ft. 702 ft. - 206 ft. SLIGHTLY Cut Mud 186 ft muddy WATER - 310 ft WATER

Reversed Out — Yes X No Mud Type Remix Viscosity 39 Weight 9 Water Loss 54.0 cc. Chlorides 19,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. PIN Safety Joint ✓ Jars: Size 4 1/2 OD Make WTC Ser. No. 403

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

DRILLING CONTRACTOR H-30 Drlg Rig #3. Length Drill Pipe 4412 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe — ft. I.D. Weight Pipe — In. Tool Joint Size — In. Length Drill Collars 186 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 67 ft.

Remarks Slide Tool Approx 20 ft

Chlorides Checked:
Top 48,000 PPM
Middle 52,000 PPM
Bottom 46,000 PPM

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

DISC 12.40

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 K.W. Wallberg
Signature of Customer or his Authorized Representative

Western Representative Joe N. Lusk

Operator's Time ~~Time~~ Thank You Hrs.

Phone 316 262-5861
316 838-0601

WESTERN TESTERS

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

No. 934

Date 8-25-77 Ticket 23115 Company TEXAS OIL + GAS CORP

Well Name and No. JOHNSON-HUNTER #1 Dst No. 4 Interval Tested 4630-4665

County HARPER State KS. Sec. 23 Twp. 31S Rg. 6W.

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
HAS TO SURF. IN 8 min (8:53A) PRE FLOW						
8:58A	13 MIN	4" ~~Pitot~~ 3/4"		Orfice	~~Plate~~	28,300 C.F.T.P.D
9:03A	18	16"	1/4"	"	"	6,720 "
9:08A	23	12"				5,860 "
9:13A	28	10"				5,320 "
9:15A	30	8"				4,760 "
SECOND FLOW						
10:20A	5 MIN	4"	1/4"	Orfice	~~Plate~~	3,370 C.F.P.D.
10:25A	10 "	36"		"		10,100 "
10:30A	15	38"		"		10,400 "
10:35A	20	28"		"		~~8,890~~ 8,890 "
10:40A	25	18"		"		~~7,120~~ 7,120 "
10:40A	30	18"		"		~~5,860~~ 7,120 "
10:50A	35	12"		"		~~5,320~~ 5,860 "
10:55A	40	10"		"		~~4,760~~ 5,320 "
11:00A	45	8"		"		4,760 4,760

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ 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 8-25-77 Test Ticket No. 23115

Recorder No. 969 Capacity 4150 Location 4655 Ft.

Clock No. 5665 Elevation 1403 K.B. Well Temperature 154° °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2235 P.S.I.	Open Tool	8:43 AM	
B First Initial Flow Pressure	129 P.S.I.	First Flow Pressure	30 Mins.	25 Mins.
C First Final Flow Pressure	205 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1726 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	253 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	373 P.S.I.			
G Final Closed-in Pressure	1732 P.S.I.			
H Final Hydrostatic Mud	2230 P.S.I.			

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	129
P 2	5	143
P 3	10	156
P 4	15	173
P 5	20	190
P 6	25	205
P 7	30	
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	205
3	508
6	1320
9	1538
12	1614
15	1656
18	1677
21	1692
24	1700
27	1709
30	1713
33	1717
36	1720
39	1721
42	1722
45	1723
48	1724
51	1725
54	1725
57	1726
60	1726

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

Point Minutes	Press.
0	253
5	253
10	265
15	283
20	304
25	314
30	333
35	348
40	361
45	373
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	373
3	1196
6	1502
9	1595
12	1641
15	1669
18	1688
21	1698
24	1707
27	1713
30	1717
33	1719
36	1721
39	1722
42	1723
45	1723
48	1724
51	1724
54	1724
57	1725
~~60~~	OVER

WESTERN TESTING CO., INC.
Pressure Data

Date 8-25-77 Test Ticket No. 23115

Recorder No. _____ Capacity _____ Location _____ Ft.

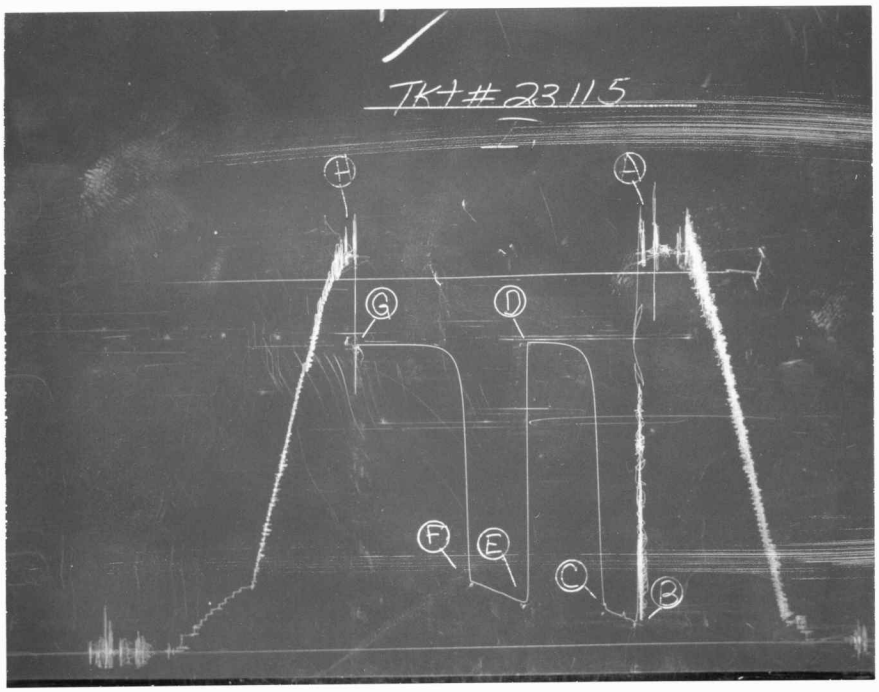
Clock No. _____ Elevation _____ Well Temperature _____ °F

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		60	1725
P 2 5		3		5		63	1726
P 3 10		6		10		66	1726
P 4 15		9		15		69	1727
P 5 20		12		20		72	1727
P 6 25		15		25		75	1728
P 7 30		18		30		78	1729
P 8 35		21		35		81	1730
P 9 40		24		40		84	1730
P10 45		27		45		87	1731
P11 50		30		50		90	1732
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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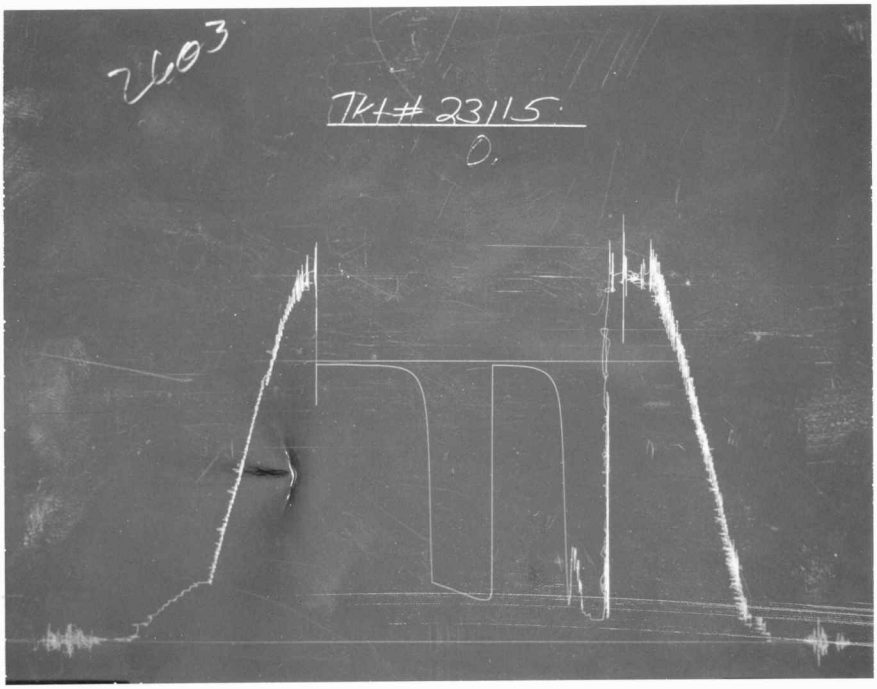
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WESTERN TESTERS

Home Office: Wichita, Kansas 67201

P. O. Box 1599 (316) 838-0601

Company Texas Oil & Gas Corp. Lease & Well No. Johnson-Hunter #1

Elevation 1403 Kelly Bush Formation Simpson Effective Pay - Ft. Ticket No. 23115

Date 8-25-77 Sec. 23 Twp. 31S Range 6W County Harper State Kansas

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

Formation Test No. 4 O.K. X Misrun - Interval Tested From 4630' to 4665' Total Depth 4665'

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 4623 Ft. Size 6 3/4 Bottom Packer Depth 4630 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 35 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4655 Ft. Clock No. 5665 Depth 4658 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 8:43A M

Tool Open I.F.P. From 8:45A M. to 9:15A M. - Hr. 30 Min. From (B) 129 P.S.I. To (C) 205 P.S.I.

Tool Closed I.C.I.P. From 9:15A M. to 10:15A M. - Hr. 60 Min (D) 1726 P.S.I.

Tool Open F.F.P. From 10:15A M. to 11:00A M. - Hr. 45 Min. From (E) 253 P.S.I. To (F) 373 P.S.I.

Tool Closed F.C.I.P. From 11:00 M. to 12:30A M. - Hr. 90 Min. (G) 1732 P.S.I.

Initial Hydrostatic Pressure (A) 2235 P.S.I. Final Hydrostatic Pressure (H) 2230 P.S.I. Maximum Temp. 154

INFORMATION

BLOW Strong blow initial flow period. Gas to surface in 8 minutes. See attatched sheet for gas measurements. Fair blow on final flow period. (Was still able to gauge gas)

Did Well Flow - Yes X No Recovery Total Ft. 702' total recovery, 206' slightly oil and gas cut mud. 186' muddy water. 310' water

Reversed Out - Yes X No Mud Type Premix Viscosity 39 Weight 9 Water Loss 54.0 cc. Chlorides 19,000 p.p.m.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4½OD In. Make W.T.C. Ser. No. 403

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

DRILLING CONTRACTOR H-30 Drlg Rig #3 Length Drill Pipe? 4412 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 186 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4"H-90 Length D.S.T. Tool 67 Ft.

Remarks: Slide tool approximately 20'. Chlorides checked: top 48,000 p.p.m.
middle 50,000 p.p.m.
bottom 96,000 p.p.m.

FORM WTC 3

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

GAS FLOW REPORT

Date 8-25-77 Ticket 23115 Company Texas Oil & Gas Corp.

Well Name and No. Johnson-Hunter #1 Dst No. 4 Interval Tested 4630' - 4665'

County Harper State Kansas Sec. 23 Twp. 31S Rg. 6W

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						
8:58 A	13 min	4" of water		3/4" orifice		28,300 C.F.P.D.
9:03 A	18 min	16" of water		¼" orifice		6,720 C.F.P.D.
9:08 A	23 min	12" of water		¼" orifice		5,860 C.F.P.D.
9:13 A	28 min	10" of water		¼" orifice		5,320 C.F.P.D.
9:15 A	30 min	8" of water		¼" orifice		4,760 C.F.P.D.
Gas to surface in 8 minutes.						
SECOND FLOW						
10:20A	5 min	4" of water		¼" orifice		3,370 C.F.P.D.
10:25A	10 min	36" of water		¼" orifice		10,100 C.F.P.D.
10:30A	15 min	38" of water		¼" orifice		10,400 C.F.P.D.
10:35A	20 min	28" of water		¼" orifice		8,890 C.F.P.D.
10:40A	25 min	18" of water		¼" orifice		7,120 C.F.P.D.
10:45A	30 min	18" of water		¼" orifice		7,120 C.F.P.D.
10:50A	35 min	12" of water		¼" orifice		5,860 C.F.P.D.
10:55A	40 min	10" of water		¼" orifice		5,320 C.F.P.D.
11:00A	45 min	8" of water		¼" orifice		4,760 C.F.P.D.

GAS BOTTLE

Serial No. - Date Bottle Filled - 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

WESTERN TESTING CO., INC.
Pressure Data

Date 8-25-77 Test Ticket No. 23115

Recorder No. 969 Capacity 4150 Location 4655 Ft.

Clock No. 5665 Elevation 1403 Kelly Bushing Well Temperature 154 °F

Point		Pressure			Time Given		Time Computed	
A	Initial Hydrostatic Mud	2235	P.S.I.	Open Tool	8:43P	M		
B	First Initial Flow Pressure	129	P.S.I.	First Flow Pressure	30	Mins.	25	Mins.
C	First Final Flow Pressure	205	P.S.I.	Initial Closed-in Pressure	60	Mins.	60	Mins.
D	Initial Closed-in Pressure	1726	P.S.I.	Second Flow Pressure	45	Mins.	45	Mins.
E	Second Initial Flow Pressure	253	P.S.I.	Final Closed-in Pressure	90	Mins.	90	Mins.
F	Second Final Flow Pressure	373	P.S.I.					
G	Final Closed-in Pressure	1732	P.S.I.					
H	Final Hydrostatic Mud	2230	P.S.I.					

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	129
P 2	5	143
P 3	10	156
P 4	15	173
P 5	20	190
P 6	25	205
P 7		
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	205
3	508
6	1320
9	1538
12	1614
15	1656
18	1677
21	1692
24	1700
27	1709
30	1713
33	1717
36	1720
39	1721
42	1722
45	1723
48	1724
51	1725
54	1725
57	1726
60	1726

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

Point Minutes	Press.
0	253
5	253
10	265
15	283
20	304
25	314
30	333
35	348
40	361
45	373

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

Point Minutes	Press.
0	373
3	1196
6	1502
9	1595
12	1641
15	1669
18	1688
21	1698
24	1707
27	1713
30	1717
33	1719
36	1721
39	1722
42	1723
45	1723
48	1724
51	1724
54	1724
57	1725

WESTERN TESTING CO., INC.
Pressure Data

Date 8-25-77 Test Ticket No. 23115

Recorder No. 969 Capacity 4150 Location 4655 Ft.

Clock No. 5665 Elevation 1403 Kelly Bushing Well Temperature 154 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2235 P.S.I.	Open Tool	8:43P M	
B First Initial Flow Pressure	129 P.S.I.	First Flow Pressure	30 Mins.	25 Mins.
C First Final Flow Pressure	205 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1726 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	253 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	373 P.S.I.			
G Final Closed-in Pressure	1732 P.S.I.			
H Final Hydrostatic Mud	2230 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 5 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: 20 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	1725
63	1726
66	1726
69	1727
72	1727
75	1728
78	1729
81	1730
84	1730
87	1731
90	1732

WTC - 4