



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 24572

Formation Indian Creek Elevation 1409.61 Eff. Pay _____ Ft.

District Augusta

Date 12/11/76

Customer Order No. _____

COMPANY NAME Texas Oil & Gas Corp.

ADDRESS 200 W. DOUGLAS SUITE 300, WICHITA KS 67202

LEASE AND WELL NO. #1 Sprague COUNTY Kingman STATE KS Sec. 13 Twp. 30S Rge. 7W

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

Mail Charts To _____ Address _____ No. Copies Requested _____

Formation Test No. 1 O.K. ☒ Misrun _____ Interval Tested From 2068 to 2120 Total Depth 2120
Size Main Hole 7 7/8 Rat Hole _____ Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No ☒ Conv. ☒ B.T. _____ Damaged _____ Yes ☒ No _____
Top Packer Depth 2063 Ft. Size 6 3/4 Bottom Packer Depth 2068 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 52 Ft. Size 5 1/2 DC Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2089 Ft. Clock No. 10167 Inside
Top Make Kuster Cap. 3150 No. 1565 Outside
Below Straddle: Depth _____ Rec. No. _____ Clock No. _____ Inside
Depth 2090 Ft. Clock No. 6895 Inside
Bottom Make Kuster Cap. 3150 No. 1562 Outside
Depth _____ Rec. No. _____ Clock No. _____ Inside

Time Set Packer 11:58 A.M.
Tool Open I.F.P. From 12:00 M. to 12:30 M. Hr. 30 Min. From (B) 59 P.S.I. To (C) 39 P.S.I.
Tool Closed I.C.I.P. From 12:30 M. to 1:30 M. Hr. 60 Min. (D) 78 P.S.I.
Tool Open F.F.P. From 1:30 M. to 1:55 M. Hr. 25 Min. From (E) 39 P.S.I. To (F) 39 P.S.I.
Tool Closed F.C.I.P. From 1:55 M. to 2:45 M. Hr. 50 Min. (G) 62 P.S.I.
Initial Hydrostatic Pressure (A) 1019 P.S.I. Final Hydrostatic Pressure (H) 1011 P.S.I. Maximum Temp. 90

INFORMATION

BLOW Weak blow 15 min then drill

Did Well Flow _____ Yes ☒ No _____ Recovery Total Fr. 10' clay mud

Reversed Out _____ Yes ☒ No _____ Mud Type Premix Viscosity 34 Weight 9.4 Water Loss 80.0 cc. Chlorides 69000
EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint ☒ Jars: Size 3 1/2 IF In. Make WTC Ser. No. 406
Dual Packers Yes Did Packers Hold? Yes Did Tool Plug? NO Where? _____
DRILLING CONTRACTOR Rains & Williamson #3 Length Drill Pipe 913 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH
Length Weight Pipe 974 ft. I.D. Weight Pipe 27 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars 233 ft. I.D. Drill Collars 2 1/4 In.
Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 47 ft.

Remarks _____

INVOICE SECTION

Open Hole Test	\$ 386.00
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 Bill Bohm Western Representative

Signature of Customer or his
Authorized Representative

Operator's Time _____

Hrs. _____

WESTERN TESTING CO., INC.

Pressure Data

Date 12-11-76

Test Ticket No. 24572

Recorder No. 1565

Capacity 3150

Location 2087 Ft.

Clock No. 10167

Elevation 1409.2

Well Temperature 90 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>1019</u>	P.S.I.
B First Initial Flow Pressure	<u>50</u>	P.S.I.
C First Final Flow Pressure	<u>30</u>	P.S.I.
D Initial Closed-in Pressure	<u>60</u>	P.S.I.
E Second Initial Flow Pressure	<u>41</u>	P.S.I.
F Second Final Flow Pressure	<u>29</u>	P.S.I.
G Final Closed-in Pressure	<u>45</u>	P.S.I.
H Final Hydrostatic Mud	<u>1008</u>	P.S.I.

	Time Given	Time Computed
Open Tool	<u>11:58 A</u>	M
First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
Second Flow Pressure	<u>95</u> Mins.	<u>25</u> Mins.
Final Closed-in Pressure	<u>50</u> Mins.	<u>48</u> Mins.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>5</u> Inc.		Breakdown: <u>16</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>50</u>	0	<u>20</u>	0	<u>41</u>	0	<u>29</u>
P 2 <u>5</u>	<u>33</u>	3	<u>28</u>	5	<u>32</u>	3	<u>29</u>
P 3 <u>10</u>	<u>31</u>	6	<u>28</u>	10	<u>30</u>	6	<u>29</u>
P 4 <u>15</u>	<u>30</u>	9	<u>29</u>	15	<u>29</u>	9	<u>29</u>
P 5 <u>20</u>	<u>30</u>	12	<u>29</u>	20	<u>29</u>	12	<u>29</u>
P 6 <u>25</u>	<u>30</u>	15	<u>29</u>	25	<u>29</u>	15	<u>29</u>
P 7 <u>30</u>	<u>30</u>	18	<u>31</u>	30	<u>29</u>	18	<u>30</u>
P 8 <u>35</u>		21	<u>31</u>	35		21	<u>31</u>
P 9 <u>40</u>		24	<u>33</u>	40		24	<u>32</u>
P10 <u>45</u>		27	<u>34</u>	45		27	<u>33</u>
P11 <u>50</u>		30	<u>35</u>	50		30	<u>34</u>
P12 <u>55</u>		33	<u>38</u>	55		33	<u>35</u>
P13 <u>60</u>		36	<u>41</u>	60		36	<u>36</u>
P14		39	<u>42</u>	65		39	<u>38</u>
P15		42	<u>45</u>	70		42	<u>39</u>
P16		45	<u>47</u>	75		45	<u>42</u>
P17		48	<u>51</u>	80		48	<u>45</u>
P18		51	<u>55</u>	85		51	
P19		54	<u>58</u>	90		54	
P20		57	<u>61</u>			57	
		60	<u>60</u>			60	



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

Company Texas Oil & Gas Corp. Lease & Well No. Sprague #1
Elevation 1409 Ground Level Formation Indian Cave Effective Pay - Ft. Ticket No. 24572
Date 12-11-76 Sec. 13 Twp. 30S Range 7W County Kingman State Kansas
Test Approved by Gary Wardeman Western Representative Bill Baker
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 2068' to 2120' Total Depth 2120'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 2063 Ft. Size 6 3/4 Bottom Packer Depth 2068 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 52 Ft. Size 5 1/2 OD & DC Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 2087 Ft. Clock No. 10167 Depth 2090 Ft. Clock No. 6895
Top Make Kuster Cap. 3150 No. 1565 Inside Outside Bottom Make Kuster Cap. 3150 No. 1562 Inside Outside
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside Outside Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Inside Outside
Time Set Packer 11:58A. M
Tool Open I.F.P. From 12:00P M. to 12:30P M. - Hr. 30 Min. From (B) 50 P.S.I. To (C) 30 P.S.I.
Tool Closed I.C.I.P. From 12:30P M. to 1:30P M. - Hr. 60 Min (D) 66 P.S.I.
Tool Open F.F.P. From 1:30P M. to 1:55P M. - Hr. 25 Min. From (E) 41 P.S.I. To (F) 29 P.S.I.
Tool Closed F.C.I.P. From 1:55P M. to 2:45P M. - Hr. 50 Min. (G) 45 P.S.I.
Initial Hydrostatic Pressure (A) 1019 P.S.I. Final Hydrostatic Pressure (H) 1008 P.S.I. Maximum Temp. 90

INFORMATION

BLOW Weak blow for 15 minutes, then died.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 10' of drilling mud.

Reversed Out ☐ Yes ☒ No Mud Type Premix Viscosity 34 Weight 9.4 Water Loss 80.0 cc. Chlorides 60,000 PPM

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

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

DRILLING CONTRACTOR Rains & Williamson Length Drill Pipe? 913 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 974 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 233 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 47 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

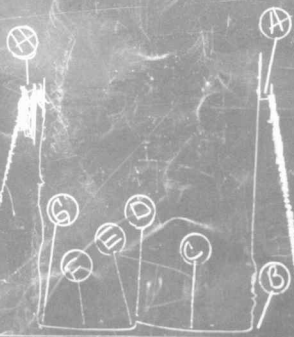
Date 12-11-76 Test Ticket No. #24572
 Recorder No. 1565 Capacity 3150 Location 2087 Ft.
 Clock No. 10167 Elevation 1409 Ground Level Well Temperature 90 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>1019</u>	P.S.I.	<u>11:58</u> A M	
B First Initial Flow Pressure <u>50</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure <u>30</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure <u>66</u>	P.S.I.	<u>25</u> Mins.	<u>25</u> Mins.
E Second Initial Flow Pressure <u>41</u>	P.S.I.	<u>50</u> Mins.	<u>48</u> Mins.
F Second Final Flow Pressure <u>29</u>	P.S.I.		
G Final Closed-in Pressure <u>45</u>	P.S.I.		
H Final Hydrostatic Mud <u>1008</u>	P.S.I.		

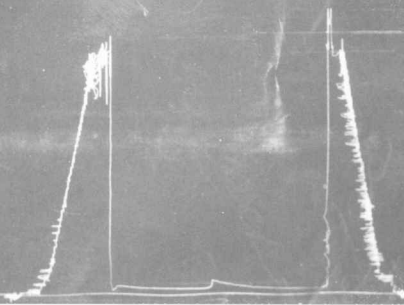
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>5</u> Inc.		Breakdown: <u>16</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>50</u>	<u>0</u>	<u>30</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>29</u>
P 2 <u>5</u>	<u>33</u>	<u>3</u>	<u>28</u>	<u>5</u>	<u>32</u>	<u>3</u>	<u>29</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>28</u>	<u>10</u>	<u>30</u>	<u>6</u>	<u>29</u>
P 4 <u>15</u>	<u>30</u>	<u>9</u>	<u>29</u>	<u>15</u>	<u>29</u>	<u>9</u>	<u>29</u>
P 5 <u>20</u>	<u>30</u>	<u>12</u>	<u>29</u>	<u>20</u>	<u>29</u>	<u>12</u>	<u>29</u>
P 6 <u>25</u>	<u>30</u>	<u>15</u>	<u>29</u>	<u>25</u>	<u>29</u>	<u>15</u>	<u>29</u>
P 7 <u>30</u>	<u>30</u>	<u>18</u>	<u>31</u>			<u>18</u>	<u>30</u>
P 8		<u>21</u>	<u>31</u>			<u>21</u>	<u>31</u>
P 9		<u>24</u>	<u>33</u>			<u>24</u>	<u>32</u>
P10		<u>27</u>	<u>34</u>			<u>27</u>	<u>33</u>
P11		<u>30</u>	<u>35</u>			<u>30</u>	<u>34</u>
P12		<u>33</u>	<u>38</u>			<u>33</u>	<u>35</u>
P13		<u>36</u>	<u>41</u>			<u>36</u>	<u>36</u>
P14		<u>39</u>	<u>42</u>			<u>39</u>	<u>38</u>
P15		<u>42</u>	<u>45</u>			<u>42</u>	<u>39</u>
P16		<u>45</u>	<u>47</u>			<u>45</u>	<u>42</u>
P17		<u>48</u>	<u>51</u>			<u>48</u>	<u>45</u>
P18		<u>51</u>	<u>55</u>				
P19		<u>54</u>	<u>58</u>				
P20		<u>57</u>	<u>61</u>				
		<u>60</u>	<u>66</u>				

TKT # 24572
F



TKT # 24572
D





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

WESTERN TESTING CO., INC. FORMATION TESTING

TICKET 25632

Formation KC. Elevation _____ Eff. Pay _____ Ft.

District Pratt Date 12-17-76 Customer Order No. _____

COMPANY NAME Texas Oil & Gas Co.

ADDRESS see att. sheet

LEASE AND WELL NO. Sprague #1 COUNTY Kingman STATE Kansas Sec. 13 Twp 30S Rge 2W

Mail Inv. To see att. sheet No. Copies Requested -
Co. Name _____ Address _____

Mail Charts To see att. sheet No. Copies Requested -
Address _____

Formation Test No. #2 O.K. X Misrun _____ Interval Tested From 3683 to 3698 Total Depth 3698
Size Main Hole 2 3/8 Rat Hole _____ Conv. X B.T. _____ Damaged _____ Yes X No Conv. X B.T. _____ Damaged _____ Yes X No
Top Packer Depth 3678 Ft. Size 6 3/4 Bottom Packer Depth 3683 Ft. Size 6 3/4
Straddle _____ Conv. _____ B.T. _____ Damaged _____ Yes _____ No Packer Depth _____ Ft. Size _____
Tool Size 5 5/8 Tool Joint Size 4 1/2 FH Anchor Length 15 Ft. Size 5 5/8 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3690 Ft. Clock No. 6799 Inside _____
Top Make Kuster Cap. 4150 No. 2606 Outside _____
Bottom Make Kuster Cap. 4000 No. 3351 Inside _____
Below Straddle: Depth _____ Rec. No. _____ Clock No. _____ Outside _____

Time Set Packer 7:42 A M
Tool Open I.F.P. From 7:45 A.M. to 8:15 A.M. Hr. 30 Min. From (B) 62 77 P.S.I. To (C) 114 125 P.S.I.
Tool Closed I.C.I.P. From 8:15 A.M. to 9:15 A.M. Hr. _____ Min. (D) 1443 1444 P.S.I.
Tool Open F.F.P. From 9:15 A.M. to 10:00 A.M. Hr. 45 Min. From (E) 114 P.S.I. To (F) 218 223 P.S.I.
Tool Closed F.C.I.P. From 10:00 A.M. to 11:30 A.M. Hr. 30 Min. (G) 1412 1417 P.S.I.
Initial Hydrostatic Pressure (A) 1705 P.S.I. Final Hydrostatic Pressure (H) 1705 P.S.I. Maximum Temp. 120

INFORMATION

BLOW Fair blow throughout test

Did Well Flow _____ Yes X No _____ Recovery Total Ft. 440 ft. 60' mud 90ft muddy water, 290ft water.

Reversed Out _____ Yes X No _____ Mud Type Driscoll Viscosity 37 Weight 8.8 Water Loss 100 cc. Chlorides 24 000

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint yes Jars: Size 2 1/2 In. Make MRC Ser. No. 2402

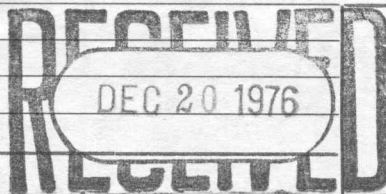
Dual Packers yes Did Packers Hold? yes Did Tool Plug? no Where? _____

DRILLING CONTRACTOR Bain & Williams on Dril Length Drill Pipe 2820 ft. I.D. Drill Pipe 29 In. Tool Joint Size 4 1/2 FH

Length Weight Pipe 293 ft. I.D. Weight Pipe 3 In. Tool Joint Size 4 1/2 FH Length Drill Collars _____ ft. I.D. Drill Collars 2 1/2 In.

Tool Joint Size 4 1/2 FH Length D.S.T. Tool 45 ft.

Remarks slt Tool 15 ft. to bottom



INVOICE SECTION

Open Hole Test	\$ <u>390.00</u>
Straddle Test	\$ _____
Jars	\$ <u>175.00</u>
Selective Zone	\$ _____
Safety Joint	\$ <u>30.00</u>
Misrun	\$ _____
Evaluation	\$ _____
Packer	\$ _____
Circ. Sub.	\$ _____
Total	\$ <u>595.00</u>

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 _____ will be added to the original amount.

ed By

Signature of Customer or his
Authorized Representative

Western Representative

Operator's Time

Hrs.



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

Company Texas Oil & Gas Corp. Lease & Well No. Sprague #1
Elevation 1410 Kelly Bush Formation Kansas City Effective Pay - Ft. Ticket No. 25632
Date 12-17-76 Sec. 13 Twp. 30S Range 7W County Kingman State Kansas
Test Approved by R. J. Flaker Western Representative Lonnie J. Cline
Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 3683' to 3698' Total Depth 3698'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 3678 Ft. Size 6 3/4 Bottom Packer Depth 3683 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 15 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3690 Ft. Clock No. 6799 Depth 3693 Ft. Clock No. 9103
Top Make Kuster Cap. 4150 No. 2606 Inside ☐ Outside ☐ Bottom Make Kuster Cap. 4000 No. 3351 Inside ☐ Outside ☐
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐ Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐
Time Set Packer 7:42A. M
Tool Open I.F.P. From 7:45A M. to 8:15A M. - Hr. 30 Min. From (B) 77 P.S.I. To (C) 125 P.S.
Tool Closed I.C.I.P. From 8:15A M. to 9:15A M. - Hr. 60 Min (D) 1444 P.S.
Tool Open F.F.P. From 9:15A M. to 10:00A M. - Hr. 45 Min. From (E) Plugging Action P.S.I. To (F) 223 P.S.
Tool Closed F.C.I.P. From 10:00A M. to 11:30A M. - Hr. 90 Min. (G) 1417 P.S.
Initial Hydrostatic Pressure (A) 1748 P.S.I. Final Hydrostatic Pressure (H) 1695 P.S.I. Maximum Temp. 120

INFORMATION

BLOW Fair blow throughout test.

Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 440' total recovery. 60' of drilling mud, 90' of muddy wa
290' of water.

Reversed Out - Yes ☒ No ☐ Mud Type Drispac Viscosity 37 Weight 8.8 Water Loss 100 cc. Chlorides 74,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 3 1/2 In. Make WTC Ser. No. 402

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

DRILLING CONTRACTOR Rains & Williamson Drilling Length Drill Pipe? 2870 Ft. I.D. Drill Pipe 3.9 In. Tool Joint Size 4 1/2 FH I

Length Weight Pipe 793 Ft. I.D. Weight Pipe 3 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars - Ft. I.D. Drill Collars 2 1/4 I

Tool Joint Size 4 1/2 H-90 Length D.S.T. Tool 45 Ft.

Remarks: Slid tool 15' to bottom.

WESTERN TESTING CO., INC.

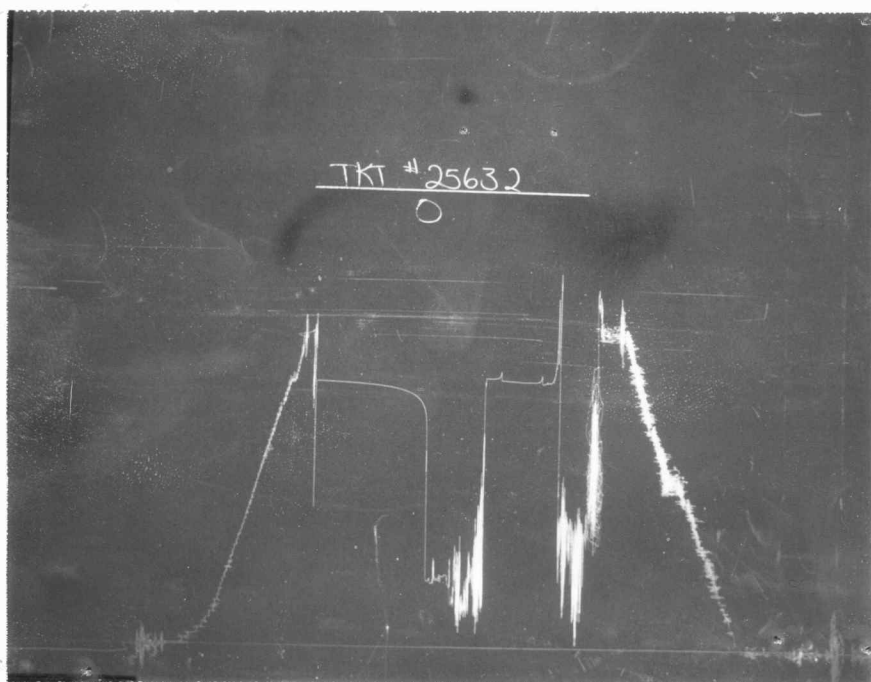
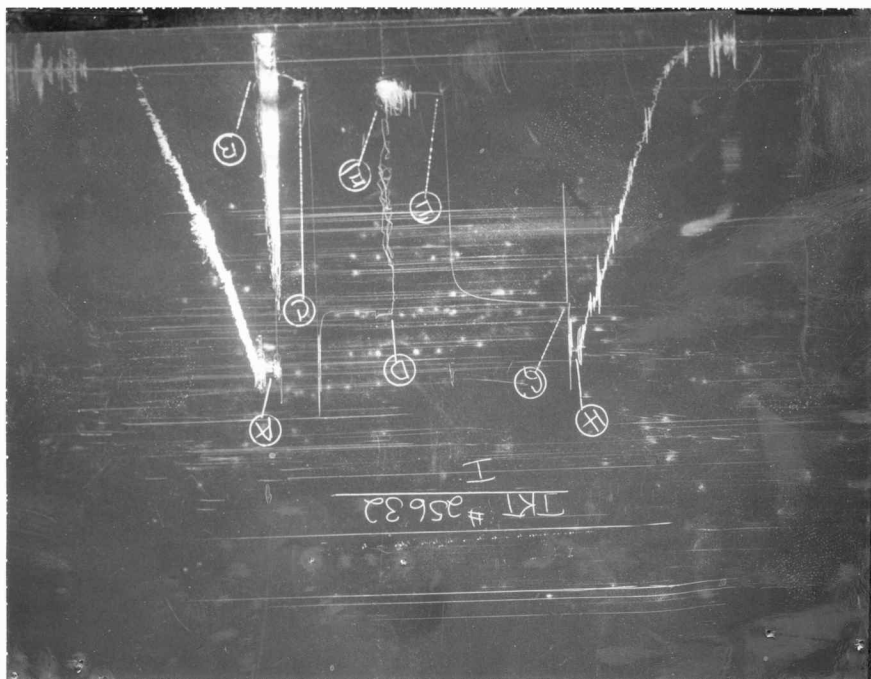
Pressure Data

Date 12-17-76 Test Ticket No. 25632
 Recorder No. 2606 Capacity 4150 Location 3690 Ft.
 Clock No. 6799 Elevation _____ Well Temperature 120 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>1748</u> P.S.I.	Open Tool	<u>2:42A</u> M	
B First Initial Flow Pressure <u>77</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure <u>125</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure <u>1444</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure <u>Plugging</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>93</u> Mins.
F Second Final Flow Pressure <u>223</u> P.S.I.			
G Final Closed-in Pressure <u>1417</u> P.S.I.			
H Final Hydrostatic Mud <u>1695</u> 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	mins. and a	of	mins. and a	of	mins. and a	of	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	<u>77</u>	0	<u>125</u>	0	<u>Plugging Act.</u>	0	<u>223</u>
P 2 5	<u>Plugging Action</u>	<u>3</u>	<u>Not readable</u>	5	<u>"</u>	3	<u>1159</u>
P 3 10	<u>"</u>	<u>6</u>	<u>Not readable</u>	10	<u>"</u>	6	<u>1176</u>
P 4 15	<u>78</u>	<u>9</u>	<u>1423</u>	15	<u>"</u>	9	<u>1315</u>
P 5 20	<u>96</u>	12	<u>1417</u>	20	<u>"</u>	12	<u>1339</u>
P 6 25	<u>Plugging Action</u>	15	<u>1415</u>	25	<u>206</u>	15	<u>1346</u>
P 7 30	<u>135</u>	18	<u>Not Readable</u>	30	<u>"</u>	18	<u>1356</u>
P 8 35		21	<u>1426</u>	35	<u>208</u>	21	<u>1367</u>
P 9 <u>40</u>		24	<u>1425</u>	40	<u>215</u>	24	<u>1373</u>
P10 <u>45</u>		27	<u>"</u>	45	<u>223</u>	27	<u>1377</u>
P11 <u>50</u>		30	<u>"</u>	50		30	<u>1381</u>
P12 <u>55</u>		33		55		33	<u>1386</u>
P13 <u>60</u>		36		60		36	<u>1390</u>
P14		39		65		39	<u>1392</u>
P15		42		70		42	<u>1394</u>
P16		45	<u>1425</u>	75		45	<u>1396</u>
P17		48	<u>Not Readable</u>	80		48	<u>1398</u>
P18		51	<u>1444</u>	85		51	<u>1400</u>
P19		54	<u>"</u>	90		54	<u>1402</u>
P20		57				57	<u>1404</u>
		60	<u>1444</u>			60	<u>1406</u>





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 25633

P. O. BOX 793 PHONE 793-7903

GREAT BEND, KANSAS

Formation Miss. Elevation 1400 KB Eff. Pay _____ Ft.

District Pratt Date 12-19-76 Customer Order No. _____
COMPANY NAME Texas Oil & Gas Co.
ADDRESS same as DST #2
LEASE AND WELL NO. Sprague #1 COUNTY Runyan STATE Kansas Sec. 13 Twp. 30S Rge. 7W
Mail Inv. To same as DST #2 Co. Name _____ Address _____ No. Copies Requested _____
Mail Charts To same as DST #2 Address _____ No. Copies Requested _____

Formation Test No. #3 O.K. X Misrun _____ Interval Tested From 4081 to 4095 Total Depth 4095
Size Main Hole 2 1/2 Rat Hole _____ Conv. X B.T. _____ Damaged Yes X No Conv. X B.T. _____ Damaged Yes X No
Top Packer Depth 4076 Ft. Size 6 3/4 Bottom Packer Depth 4081 Ft. Size 6 3/4
Straddle _____ Conv. _____ B.T. _____ Damaged _____ Yes _____ No _____ Packer Depth _____ Ft. Size _____
Tool Size 5 1/2 CD Tool Joint Size 4 1/2 FH Anchor Length 14 Ft. Size 5 1/2 CD Surface Choke Size 7/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4087 Ft. Clock No. 6749 Depth 4090 Ft. Clock No. 9301
Top Make Kuster Cap. 4150 No. 2606 Inside _____ Outside _____
Bottom Make Kuster Cap. 4000 No. 3351 Inside _____ Outside _____
Below Straddle: Depth _____ Rec. No. _____ Clock No. _____ Inside _____ Outside _____

Time Set Packer 8:13 AM
Tool Open I.F.P. From 8:15 A M. to 8:45 A M. Hr. 30 Min. From (B) 10 P.S.I. To (C) 10 P.S.I.
Tool Closed I.C.I.P. From 8:45 A M. to 9:45 A M. 1 Hr. Min. (D) 1287 P.S.I.
Tool Open F.F.P. From 9:45 A M. to 10:45 A M. 1 Hr. Min. From (E) 20 P.S.I. To (F) 20 P.S.I.
Tool Closed F.C.I.P. From 10:45 A M. to 12:45 P M. 2 Hr. Min. (G) 1287 P.S.I.
Initial Hydrostatic Pressure (A) 1894 P.S.I. Final Hydrostatic Pressure (H) 1894 P.S.I. Maximum Temp. 121

INFORMATION

BLOW Strong blow gas to surface in 25 min.
Did Well Flow Yes X No _____ Recovery Total Ft. 68 ft was cut water mud

Reversed Out Yes X No _____ Mud Type Drill Viscosity 42 Weight 9.0 Water Loss 12.0 cc. Chlorides 12,000
EXTRA EQUIPMENT: Type Circ. Sub. p10 Safety Joint yes Jars: Size 3 1/2 In. Make MT Ser. No. 402
Dual Packers yes Did Packers Hold? yes Did Tool Plug? no Where? _____
DRILLING CONTRACTOR Boins & Williamson Drilling Length Drill Pipe 3238 ft. I.D. Drill Pipe 34 In. Tool Joint Size 4 1/2 FH In.
Length Weight Pipe 924 ft. I.D. Weight Pipe 3 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars 232 ft. I.D. Drill Collars 2 1/4 In.
Tool Joint Size 5 1/2 H 90 Length D.S.T. Tool 47 ft.

Remarks _____

INVOICE SECTION

Open Hole Test	\$ <u>415.00</u>
Straddle Test	\$ <u>0.00</u>
Jars	\$ <u>175.00</u>
Selective Zone	\$ _____
Safety Joint	\$ <u>30.00</u>
Misrun	\$ _____
Evaluation	\$ _____
Packer	\$ _____
Circ. Sub.	\$ _____
Total	\$ <u>620.00</u>

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 Louis J. Clin Western Representative Louis J. Clin
Signature of Customer or his Authorized Representative _____

WESTERN TESTING CO., INC.

Pressure Data

Date 12-19-76 Test Ticket No. 25633
 Recorder No. 2606 Capacity 4150 Location 4087 Ft.
 Clock No. 6799 Elevation 1410 K.B. Well Temperature 121 °F
 Point Pressure Time Given Time Computed
 1 Initial Hydrostatic Mud 1926 P.S.I. Open Tool 8:13A M
 2 First Initial Flow Pressure 34 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 3 First Final Flow Pressure 119 P.S.I. Initial Closed-in Pressure 60 Mins. 60 Mins.
 4 Initial Closed-in Pressure 1275 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 5 Second Initial Flow Pressure 42 P.S.I. Final Closed-in Pressure 120 Mins. 120 Mins.
 6 Second Final Flow Pressure 22 P.S.I.
 7 Final Closed-in Pressure 1282 P.S.I.
 8 Final Hydrostatic Mud 1901 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>40</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1 0	34	0	119	0	42	0	22
2 5	114	3	295	5	14	3	339
3 10	115	6	531	10	17	6	512
4 15	119	9	717	15	18	9	657
5 20	118	12	848	20	19	12	812
6 25	119	15	938	25	20	15	973
7 30	119	18	1019	30	20	18	1053
8 35		21	1080	35	20	21	1126
9 40		24	1132	40	21	24	1177
10 45		27	1173	45	21	27	1211
11 50		30	1199	50	21	30	1228
12 55		33	1221	55	22	33	1240
13 60		36	1236	60	22	36	1250
14		39	1244	65		39	1257
15		42	1255	70		42	1261
16		45	1261	75		45	1263
17		48	1265	80		48	1267
18		51	1269	85		51	1268
19		54	1271	90		54	1271
20		57	1273			57	1272
		60	1274			60	1273
		63	1275				

WTC - 4

OVER

63	—	1274
66	—	1274
69	—	1275
72	—	1275
75	—	1276
78	—	1276
81	—	1276
84	—	1277
87	—	1277
90	—	1277
93	—	1278
96	—	1278
99	—	1278
102	—	1279
105	—	1279
108	—	1280
111	—	1280
114	—	1281
117	—	1281
120	—	1282

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Nº 139

Date 12-19-76 Ticket 25633 Company Texas Oil & Gas Co.
Well Name and No. Sprague #1 Dst No. #3 Interval Tested 4081-4095
County Kingman State Kansas Sec. 13 Twp. 30S Rg. 7W

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
<u>gas for sur in 25 min. 1/4 orifice</u>						
<u>8:45</u>	<u>30 min</u>	<u>5</u>				<u>3,710 C.F.G.P.D.</u>

SECOND FLOW

<u>9:50</u>	<u>7 min</u>	<u>72</u>	<u>3/4 orifice</u>			<u>120,000 C.F.G.P.D.</u>
<u>9:55</u>	<u>10 min</u>	<u>40</u>	<u>1/2 orifice</u>			<u>39,600</u>
<u>10:00</u>	<u>15 min</u>	<u>30</u>				<u>34,300</u>
<u>10:05</u>	<u>20 min</u>	<u>30</u>				<u>34,300</u>
<u>10:10</u>	<u>25 min</u>	<u>34</u>				<u>36,500</u>
<u>10:15</u>	<u>30 min</u>	<u>36</u>				<u>37,600</u>
<u>10:20</u>	<u>35 min</u>	<u>38</u>				<u>38,600</u>
<u>10:25</u>	<u>40 min</u>	<u>40</u>				<u>39,600</u>
<u>10:30</u>	<u>45 min</u>	<u>44</u>				<u>41,600</u>
<u>10:35</u>	<u>50 min</u>	<u>44</u>				<u>41,600</u>
<u>10:40</u>	<u>55 min</u>	<u>45</u>				<u>42,000</u>
<u>10:45</u>	<u>60 min</u>	<u>45</u>				<u>42,000</u>

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 _____

Authorized by _____



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

Company Texas Oil & Gas Corp. Lease & Well No. Sprague #1
Elevation 1410 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 25633
Date 12-19-76 Sec. 13 Twp. 30S Range 7W County Kingman State Kansas
Test Approved by Gary Wardeman Western Representative Lonnie J. Cline
Formation Test No. 3 O.K. X Misrun - Interval Tested From 4081' to 4095' Total Depth 4095'
Size Main Hole 7 7/8 Rat Hole - Conv. X B.T. - Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No
Top Packer Depth 4076 Ft. Size 6 3/4 Bottom Packer Depth 4081 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 14 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4087 Ft. Clock No. 6799 Depth 4090 Ft. Clock No. 9301
Top Make Kuster Cap. 4150 No. 2606 Inside Inside Bottom Make Kuster Cap. 4000 No. 3351 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 8:13A. M
Tool Open I.F.P. From 8:15A M. to 8:45A M. - Hr. 30 Min. From (B) 34 P.S.I. To (C) 119 P.S.I.
Tool Closed I.C.I.P. From 8:45A M. to 9:45A M. - Hr. 60 Min (D) 1275 P.S.I.
Tool Open F.F.P. From 9:45A M. to 10:45A M. - Hr. 60 Min. From (E) 42 P.S.I. To (F) 22 P.S.I.
Tool Closed F.C.I.P. From 10:45A M. to 12:45P M. - Hr. 120 Min. (G) 1282 P.S.I.
Initial Hydrostatic Pressure (A) 1926 P.S.I. Final Hydrostatic Pressure (H) 1901 P.S.I. Maximum Temp. 121

INFORMATION

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

Did Well Flow - Yes X No Recovery Total Ft. 68' of gas cut watery mud.

Reversed Out - Yes X No Mud Type Driscap Viscosity 42 Weight 9.0 Water Loss 12.0 cc. Chlorides 12,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 3 1/2 Make WTC Ser. No. 402

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

DRILLING CONTRACTOR Rains & Williamson Drlg. Length Drill Pipe? 3738 Ft. I.D. Drill Pipe 3.9 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 924 Ft. I.D. Weight Pipe 3 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 232 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 47 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 12-19-76 Test Ticket No. 25633
 Recorder No. 2606 Capacity 4150 Location 4087 Ft.
 Clock No. 6799 Elevation 1410 Kelly Bushing Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1926</u> P.S.I.	Open Tool	<u>8:13A.</u> M	
B First Initial Flow Pressure	<u>34</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>119</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
D Initial Closed-in Pressure	<u>1275</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>42</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>120</u> Mins.
F Second Final Flow Pressure	<u>22</u> P.S.I.			
G Final Closed-in Pressure	<u>1282</u> P.S.I.			
H Final Hydrostatic Mud	<u>1901</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>21</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>40</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1274
P 2						66	1274
P 3						69	1275
P 4						72	1275
P 5						75	1276
P 6						78	1276
P 7						81	1276
P 8						84	1277
P 9						87	1277
P10						90	1277
P11						93	1278
P12						96	1278
P13						99	1278
P14						102	1279
P15						105	1279
P16						108	1280
P17						111	1280
P18						114	1281
P19						117	1281
P20						120	1282



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

GAS FLOW REPORT

Date 12-19-76 Ticket #25633 Company Texas Oil & Gas Corp.
Well Name and No. Sprague #1 Dst No. 3 Interval Tested 4081' to 4095'
County Kingman State Kansas Sec. 13 Twp. 30S Rg. 7W

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 25 minutes $\frac{1}{4}$ " Orifice PRE FLOW						
8:45pm	30 min.	5 inches	of water			3,710 C.F.P.D.

SECOND FLOW

9:50 pm	5 min.	72 inches	of water	$\frac{3}{4}$ " Orifice	120,000 C.F.P.D.
9:55 pm	10 min.	40 inches	of water	$\frac{1}{2}$ " Orifice	39,600 C.F.P.D.
10:00 pm	15 min.	30 inches	of water	$\frac{1}{2}$ " Orifice	34,300 C.F.P.D.
10:05 pm	20 min.	30 inches	of water	$\frac{1}{2}$ " Orifice	34,300 C.F.P.D.
10:10 pm	25 min.	34 inches	of water	$\frac{1}{2}$ " Orifice	36,500 C.F.P.D.
10:15 pm	30 min.	36 inches	of water	$\frac{1}{2}$ " Orifice	37,600 C.F.P.D.
10:20 pm	35 min.	38 inches	of water	$\frac{1}{2}$ " Orifice	38,600 C.F.P.D.
10:25 pm	40 min.	40 inches	of water	$\frac{1}{2}$ " Orifice	39,600 C.F.P.D.
10:30 pm	45 min.	44 inches	of water	$\frac{1}{2}$ " Orifice	41,600 C.F.P.D.
10:35 pm	50 min.	44 inches	of water	$\frac{1}{2}$ " Orifice	41,600 C.F.P.D.
10:40 pm	55 min.	45 inches	of water	$\frac{1}{2}$ " Orifice	42,000 C.F.P.D.
10:45 pm	60 min.	45 inches	of water	$\frac{1}{2}$ " Orifice	42,000 C.F.P.D.

GAS BOTTLE

Serial No. - Date Bottle Filled 12-19-76 Date to be Invoiced 12-19-76

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Texas Oil & Gas Corp.

Authorized by Gary Wardeman





P. O. BOX 793 PHONE 793-7903

GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 25634

Formation Miss Elevation 1410 KB Eff. Pay _____ Ft.

District Pratt

Date 12-20-76 Customer Order No. _____

COMPANY NAME Texas Oil & Gas Co.

ADDRESS same as DST #2

LEASE AND WELL NO. Sprague #1

COUNTY Kingman STATE Kansas Sec. 13 Twp. 30S Rge. 2W

Mail Inv. To same as DST #2

Co. Name

Address

No. Copies Requested

Mail Charts To same as DST #2

Address

No. Copies Requested

Formation Test No. #4 O.K. X Misrun _____ Interval Tested From 4085 to 4103 Total Depth 4103
Size Main Hole 2 7/8 Rat Hole _____ Conv. X B.T. _____ Damaged Yes X No Conv. X B.T. _____ Damaged X Yes _____ No
Top Packer Depth 4080 Ft. Size 6 3/4 Bottom Packer Depth 4085 Ft. Size 6 3/4
Straddle _____ Conv. _____ B.T. _____ Damaged _____ Yes _____ No Packer Depth _____ Ft. Size _____
Tool Size 5 5/8 Tool Joint Size 4 1/2 FH Anchor Length 18 Ft. Size 5 5/8 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4095 Ft. Clock No. 6799 Depth 4098 Ft. Clock No. 9301
Top Make Kuster Cap. 4150 No. 2606 Inside _____ Outside _____ Bottom Make Kuster Cap. 4000 No. 3357 Inside _____ Outside _____
Below Straddle: Depth _____ Rec. No. _____ Clock No. _____ Depth _____ Ft. Rec. No. _____ Clock No. _____ Inside _____ Outside _____

Time Set Packer 2:15 AM
Tool Open I.F.P. From 2:17 AM. to 2:47 AM. Hr. 30 Min. From (B) 80 P.S.I. To (C) 100 P.S.I.
Tool Closed I.C.I.P. From 2:47 AM. to 3:47 AM. 1 Hr. Min. (D) 1307 P.S.I. To 1306 P.S.I.
Tool Open F.F.P. From 3:47 AM. to 4:32 AM. Hr. 45 Min. From (E) 110 P.S.I. To (F) 110 P.S.I.
Tool Closed F.C.I.P. From 4:32 AM. to 6:02 AM. 1 Hr. 30 Min. (G) 1307 P.S.I. To 1302 P.S.I.
Initial Hydrostatic Pressure (A) 1932 P.S.I. Final Hydrostatic Pressure (H) 1932 P.S.I. Maximum Temp. 128

INFORMATION

BLOW Strong blow gas to sur. in 5 min.
see etc. sheet
Did Well Flow Yes X No _____ Recovery Total Ft. 180 ft. gas cut mud water mud

Reversed Out Yes X No _____ Mud Type Driscopac Viscosity 42 Weight 90 Water Loss 12.0 cc. Chlorides 12,000
EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint yes Jars: Size 33 In. Make NRC Ser. No. 402
Dual Packers yes Did Packers Hold? yes Did Tool Plug? no Where? _____
DRILLING CONTRACTOR Rainst Williamson Co. Length Drill Pipe 3848 ft. I.D. Drill Pipe 3.9 In. Tool Joint Size 4 1/2 FH
Length Weight Pipe 774 ft. I.D. Weight Pipe 3 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars 232 ft. I.D. Drill Collars 2 1/4 In.
Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 49 ft.

Remarks needed bottom recorder

RECEIVED
DEC 22 1976

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 Larry C. Wurdeman
Signature of Customer or his
Authorized Representative

Western Representative Louie J. Clark

Operator's Time 3 hours

Hrs.

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



GAS FLOW REPORT

N^o 140

Date 12-20-76 Ticket 25634 Company Texas Oil & Gas
Well Name and No. Sprague #1 Dst No. #4 Interval Tested 4085-4103
County Kingman State Kansas Sec. 13 Twp. 30S Rg. 7W

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
<u>gas to sur in 5 min 3/4 orifice PRE FLOW</u>						
2:27	10 min	8				227,000 C.F.G.P.D.
2:32	15 min	10				259,000 " "
2:37	20 min	12				288,000 " "
2:42	25 min	12.5				295,500 " "
2:47	30 min	13				303,000 " "
<u>3/4" orifice SECOND FLOW</u>						
3:52	5 min	13				303,000 C.F.G.P.D.
3:57	10 min	14				331,000 " "
4:02	15 min	14				331,000 " "
4:07	20 min	14				331,000 " "
4:12	25 min	14				331,000 " "
4:17	30 min	14				331,000 " "
4:22	35 min	13				303,000 " "
4:27	40 min	13				303,000 " "
4:32	45 min	13				303,000 " "

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 _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 12-20-76 Test Ticket No. 25634
 Recorder No. 3351 Capacity 4000 Location 4098 Ft.
 Clock No. 9301 Elevation 1410K. Bushing Well Temperature 128 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1942</u> P.S.I.	<u>2:15A</u> M	
B First Initial Flow Pressure	<u>84</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>106</u> P.S.I.	<u>40</u> Mins.	<u>40</u> Mins.
D Initial Closed-in Pressure	<u>1304</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>125</u> P.S.I.	<u>90</u> Mins.	<u>96</u> Mins.
F Second Final Flow Pressure	<u>113</u> P.S.I.		
G Final Closed-in Pressure	<u>1302</u> P.S.I.		
H Final Hydrostatic Mud	<u>1905</u> P.S.I.		

TAN PKB BAR ORD MAY

PRESSURE BREAKDOWN

First Flow Pressure Breakdown:		Initial Shut-In Breakdown:		Second Flow Pressure Breakdown:		Final Shut-In Breakdown:	
of <u>6</u> mins. and a final inc. of <u>0</u> Min.		of <u>20</u> mins. and a final inc. of <u>0</u> Min.		of <u>9</u> mins. and a final inc. of <u>0</u> Min.		of <u>32</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>84</u>	0	<u>106</u>	0	<u>125</u>	0	<u>113</u>
P 2 5	<u>90</u>	3	<u>1065</u>	5	<u>104</u>	3	<u>946</u>
P 3 10	<u>90</u>	6	<u>1208</u>	10	<u>106</u>	6	<u>1151</u>
P 4 15	<u>93</u>	9	<u>1238</u>	15	<u>108</u>	9	<u>1194</u>
P 5 20	<u>98</u>	12	<u>1256</u>	20	<u>108</u>	12	<u>1214</u>
P 6 25	<u>102</u>	15	<u>1268</u>	25	<u>110</u>	15	<u>1230</u>
P 7 30	<u>106</u>	18	<u>1276</u>	30	<u>112</u>	18	<u>1240</u>
P 8 35		21	<u>1282</u>	35	<u>113</u>	21	<u>1250</u>
P 9 40		24	<u>1286</u>	40	<u>113</u>	24	<u>1256</u>
P 10 45		27	<u>1290</u>	45	<u>113</u>	27	<u>1262</u>
P 11 50		30	<u>1292</u>	50		30	<u>1266</u>
P 12 55		33	<u>1294</u>	55		33	<u>1270</u>
P 13 60		36	<u>1298</u>	60		36	<u>1274</u>
P 14		39	<u>1300</u>	65		39	<u>1278</u>
P 15		42	<u>1302</u>	70		42	<u>1280</u>
P 16		45	<u>1303</u>	75		45	<u>1282</u>
P 17		48	<u>1304</u>	80		48	<u>1284</u>
P 18		51	<u>1305</u>	85		51	<u>1286</u>
P 19		54	<u>1306</u>	90		54	<u>1288</u>
P 20		57	<u>1306</u>			57	<u>1290</u>
		60	<u>1306</u>			60	<u>1291</u>



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

Company Texas Oil & Gas Corp. Lease & Well No. Sprague #1
Elevation 1410 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 25634
Date 12-20-76 Sec. 13 Twp. 30S Range 7W County Kingman State Kansas
Test Approved by Gary Wardeman Western Representative Lonnie J. Cline
Formation Test No. 4 O.K. ☒ Misrun ☐ Interval Tested From 4085' to 4103' Total Depth 4103'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☒ Yes ☐ No
Top Packer Depth 4080 Ft. Size 6 3/4 Bottom Packer Depth 4085 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 18 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4095 Ft. Clock No. 6799 Depth 4098 Ft. Clock No. 9301
Top Make Kuster Cap. 4150 No. 2606 Inside ☐ Outside ☐ Bottom Make Kuster Cap. 4000 No. 3351 Inside ☐ Outside ☐
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐ Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐
Time Set Packer 2:15A. M
Tool Open I.F.P. From 2:17A M. to 2:47A M. - Hr. 30 Min. From (B) 84 P.S.I. To (C) 106 P.S.I.
Tool Closed I.C.I.P. From 2:47A M. to 3:47A M. - Hr. 60 Min (D) 1306 P.S.I.
Tool Open F.F.P. From 3:47A M. to 4:32A M. - Hr. 45 Min. From (E) 125 P.S.I. To (F) 113 P.S.I.
Tool Closed F.C.I.P. From 4:32A M. to 6:02A M. - Hr. 90 Min. (G) 1302 P.S.I.
Initial Hydrostatic Pressure (A) 1942 P.S.I. Final Hydrostatic Pressure (H) 1905 P.S.I. Maximum Temp. 128

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 5 minutes, see attached sheet for gas measurements.

Did Well Flow ☐ Yes ☒ No Recovery Total Fr. 180' of gas cut watery mud.

Reversed Out ☐ Yes ☒ No Mud Type Driscap Viscosity 42 Weight 9.0 Water Loss 12.0 cc. Chlorides 12,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 3 1/2 In. Make WTC Ser. No. 402

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

DRILLING CONTRACTOR Rains & Williamson Length Drill Pipe? 3848 Ft. I.D. Drill Pipe 3.9 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 974 Ft. I.D. Weight Pipe 3 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 232 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 49 Ft.

Remarks: Read bottom recorder #3351.



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

Date 12-20-76 Ticket 25634 Company Texas Oil & Gas Corp.
Well Name and No. Sprague #1 Dst No. 4 Interval Tested 4085' - 4103
County Kingman State Kansas Sec. 13 Twp. 30S Rg. 7W

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						
2:27AM	10 min.	8PSIG	3/4" choke			227,000 C.F.P.D.
2:32AM	15 min.	10 PSIG	3/4" choke			259,000 C.F.P.D.
2:37AM	20 min.	12 PSIG	3/4" choke			288,000 C.F.P.D.
2:42AM	25 min.	12.5 PSIG	3/4" choke			295,500 C.F.P.D.
2:47AM	30 min.	13 PSIG	3/4" choke			303,000 C.F.P.D.
Gas to surface in 5 minutes.						

SECOND FLOW						
3:52AM	5 min.	13 PSIG	3/4" choke			303,000 C.F.P.D.
3:57AM	10 min.	14 PSIG	3/4" choke			331,000 C.F.P.D.
4:02AM	15 min.	14PSIG	3/4" choke			331,000 C.F.P.D.
4:07AM	20 min.	14 PSIG	3/4" choke			331,000 C.F.P.D.
4:12AM	25 min.	14 PSIG	3/4" choke			331,000 C.F.P.D.
4:17AM	30 min.	14 PSIG	3/4" choke			331,000 C.F.P.D.
4:22AM	35 min.	13 PSIG	3/4" choke			303,000 C.F.P.D.
4:27AM	40 min.	13 PSIG	3/4" choke			303,000 C.F.P.D.
4:32AM	45 min.	13 PSIG	3/4" choke			303,000 C.F.P.D.
All measurements were taken with a 2" merla orifice well tester with a 3 /4" choke.						

GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced 12-20-76

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Texas Oil & Gas Corp.

Authorized by Gary Wardeman

WESTERN TESTING CO., INC.

Pressure Data

Date 12-20-76 Test Ticket No. 25634
 Recorder No. 3351 Capacity 4000 Location 4098 Ft.
 Block No. 9301 Elevation 1410 Kelly Bushing Well Temperature 128 °F
 Point Pressure Time Given Time Computed
 Initial Hydrostatic Mud 1942 P.S.I. Open Tool 2:15A. M
 First Initial Flow Pressure 84 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 First Final Flow Pressure 106 P.S.I. Initial Closed-in Pressure 60 Mins. 60 Mins.
 Initial Closed-in Pressure 1306 P.S.I. Second Flow Pressure 45 Mins. 45 Mins.
 Second Initial Flow Pressure 125 P.S.I. Final Closed-in Pressure 90 Mins. 96 Mins.
 Second Final Flow Pressure 113 P.S.I.
 Final Closed-in Pressure 1302 P.S.I.
 Final Hydrostatic Mud 1905 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>32</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1 <u>0</u>	<u>84</u>	<u>0</u>	<u>106</u>	<u>0</u>	<u>125</u>	<u>0</u>	<u>113</u>
2 <u>5</u>	<u>90</u>	<u>3</u>	<u>1065</u>	<u>5</u>	<u>104</u>	<u>3</u>	<u>946</u>
3 <u>10</u>	<u>90</u>	<u>6</u>	<u>1208</u>	<u>10</u>	<u>160</u>	<u>6</u>	<u>1151</u>
4 <u>15</u>	<u>93</u>	<u>9</u>	<u>1238</u>	<u>15</u>	<u>108</u>	<u>9</u>	<u>1194</u>
5 <u>20</u>	<u>98</u>	<u>12</u>	<u>1256</u>	<u>20</u>	<u>108</u>	<u>12</u>	<u>1214</u>
6 <u>25</u>	<u>102</u>	<u>15</u>	<u>1268</u>	<u>25</u>	<u>110</u>	<u>15</u>	<u>1230</u>
7 <u>30</u>	<u>106</u>	<u>18</u>	<u>1276</u>	<u>30</u>	<u>112</u>	<u>18</u>	<u>1240</u>
8		<u>21</u>	<u>1282</u>	<u>35</u>	<u>113</u>	<u>21</u>	<u>1250</u>
9		<u>24</u>	<u>1286</u>	<u>40</u>	<u>113</u>	<u>24</u>	<u>1256</u>
10		<u>27</u>	<u>1290</u>	<u>45</u>	<u>113</u>	<u>27</u>	<u>1262</u>
11		<u>30</u>	<u>1292</u>			<u>30</u>	<u>1266</u>
12		<u>33</u>	<u>1296</u>			<u>33</u>	<u>1270</u>
13		<u>36</u>	<u>1298</u>			<u>36</u>	<u>1274</u>
14		<u>39</u>	<u>1300</u>			<u>39</u>	<u>1278</u>
15		<u>42</u>	<u>1302</u>			<u>42</u>	<u>1280</u>
16		<u>45</u>	<u>1303</u>			<u>45</u>	<u>1282</u>
17		<u>48</u>	<u>1304</u>			<u>48</u>	<u>1284</u>
18		<u>51</u>	<u>1305</u>			<u>51</u>	<u>1286</u>
19		<u>54</u>	<u>1306</u>			<u>54</u>	<u>1288</u>
20		<u>57</u>	<u>1306</u>			<u>57</u>	<u>1290</u>
		<u>60</u>	<u>1306</u>			<u>60</u>	<u>1291</u>

WESTERN TESTING CO., INC.
Pressure Data

Date 12-20-76 Test Ticket No. 25634
Recorder No. 3351 Capacity 4000 Location 4098 Ft.
Clock No. 9301 Elevation 1410 Kelly Bushing Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1942</u> P.S.I.	Open Tool	<u>2:15A.</u> M	
B First Initial Flow Pressure	<u>84</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>106</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1306</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>125</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>96</u> Mins.
F Second Final Flow Pressure	<u>113</u> P.S.I.			
G Final Closed-in Pressure	<u>1302</u> P.S.I.			
H Final Hydrostatic Mud	<u>1905</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>32</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1292
P 2						66	1294
P 3						69	1295
P 4						72	1296
P 5						75	1297
P 6						78	1298
P 7						81	1299
P 8						84	1300
P 9						87	1300
P10						90	1301
P11						93	1302
P12						96	1302
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

