



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

Company Texas Oil & Gas Corp. Lease & Well No. Messinger A-#1
Elevation 1572 Kelly Bushing Formation Indian Cave Effective Pay - Ft. Ticket No. 21993
Date 5-2-77 Sec. 24 Twp. 29S Range 8W County Kingman State Kansas
Test Approved by Kenneth W. Dahlberg Western Representative Sam McClune
Formation Test No. 1 O.K. Misrun Interval Tested From 2198' to 2227' Total Depth 2227'
Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 2193 Ft. Size 6 3/4 Bottom Packer Depth 2198 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 29 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 2220 Ft. Clock No. 6800 Depth 2223 Ft. Clock No. 6896
Top Make Kuster Cap. 4200 No. 1558 Inside Outside Bottom Make Kuster Cap. 3150 No. 1569 Inside Outside
Below Straddle: Depth Rec. No. Clock No. Inside Outside Depth Ft. Rec. No. Clock No. Inside Outside
Time Set Packer 8:43 M
Tool Open I.F.P. From 8:45 M. to 9:15 M. - Hr. 30 Min. From (B) 59 P.S.I. To (C) 178 P.S.I.
Tool Closed I.C.I.P. From 9:15 M. to 10:15 M. 1 Hr. - Min (D) 889 P.S.I.
Tool Open F.F.P. From 10:15 M. to 11:00 M. - Hr. 45 Min. From (E) 193 P.S.I. To (F) 281 P.S.I.
Tool Closed F.C.I.P. From 11:00 M. to 12:30 M. 1 Hr. 30 Min. (G) 882 P.S.I.
Initial Hydrostatic Pressure (A) 1065 P.S.I. Final Hydrostatic Pressure (H) 1054 P.S.I. Maximum Temp. 98

INFORMATION

BLOW Weak blow increasing to a strong blow throughout test.

Did Well Flow Yes No Recovery Total Ft. 540' muddy salt water.

Reversed Out Yes No Mud Type premix Viscosity 38 Weight 9.1 Water Loss 30.4 cc. Chlorides 18,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Bowen Jars: Size 3 1/2 IF In. Make WTC Ser. No. 411

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

DRILLING CONTRACTOR XPLOR Drllg.Co. Length Drill Pipe? 1897 Ft. I.D. Drill Pipe 3.7 In. Tool Joint Size 4 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 330 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 58 Ft.

Remarks: Chlorides check - 30,000 P.P.M. (top)
" " - 60,000 P.P.M. (middle)
" " - 90,000 P.P.M. (bottom)

WESTERN TESTING CO., INC.

Pressure Data

Date 5-2-77 Test Ticket No. 21993
 Recorder No. 1558 Capacity 4200 Location 2220 Ft.
 Clock No. 6800 Elevation 1572 Kelly Bushing Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1065</u>	P.S.I.	<u>8:43</u>	<u>M</u>
B First Initial Flow Pressure	<u>59</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
C First Final Flow Pressure	<u>178</u>	P.S.I.	<u>60</u>	<u>Mins.</u>
D Initial Closed-in Pressure	<u>889</u>	P.S.I.	<u>45</u>	<u>Mins.</u>
E Second Initial Flow Pressure	<u>193</u>	P.S.I.	<u>90</u>	<u>Mins.</u>
F Second Final Flow Pressure	<u>281</u>	P.S.I.		
G Final Closed-in Pressure	<u>882</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1054</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>19</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>30</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>59</u>	<u>0</u>	<u>178</u>	<u>0</u>	<u>193</u>	<u>0</u>	<u>281</u>
P 2 <u>5</u>	<u>66</u>	<u>3</u>	<u>706</u>	<u>5</u>	<u>197</u>	<u>3</u>	<u>697</u>
P 3 <u>10</u>	<u>92</u>	<u>6</u>	<u>762</u>	<u>10</u>	<u>210</u>	<u>6</u>	<u>748</u>
P 4 <u>15</u>	<u>114</u>	<u>9</u>	<u>791</u>	<u>15</u>	<u>219</u>	<u>9</u>	<u>775</u>
P 5 <u>20</u>	<u>137</u>	<u>12</u>	<u>812</u>	<u>20</u>	<u>232</u>	<u>12</u>	<u>793</u>
P 6 <u>25</u>	<u>158</u>	<u>15</u>	<u>824</u>	<u>25</u>	<u>243</u>	<u>15</u>	<u>804</u>
P 7 <u>30</u>	<u>178</u>	<u>18</u>	<u>837</u>	<u>30</u>	<u>252</u>	<u>18</u>	<u>816</u>
P 8		<u>21</u>	<u>844</u>	<u>35</u>	<u>262</u>	<u>21</u>	<u>824</u>
P 9		<u>24</u>	<u>852</u>	<u>40</u>	<u>271</u>	<u>24</u>	<u>832</u>
P10		<u>27</u>	<u>860</u>	<u>45</u>	<u>281</u>	<u>27</u>	<u>837</u>
P11		<u>30</u>	<u>865</u>			<u>30</u>	<u>843</u>
P12		<u>33</u>	<u>868</u>			<u>33</u>	<u>847</u>
P13		<u>36</u>	<u>873</u>			<u>36</u>	<u>851</u>
P14		<u>39</u>	<u>877</u>			<u>39</u>	<u>856</u>
P15		<u>42</u>	<u>880</u>			<u>42</u>	<u>858</u>
P16		<u>45</u>	<u>882</u>			<u>45</u>	<u>861</u>
P17		<u>48</u>	<u>885</u>			<u>48</u>	<u>863</u>
P18		<u>51</u>	<u>887</u>			<u>51</u>	<u>865</u>
P19		<u>54</u>	<u>888</u>			<u>54</u>	<u>867</u>
P20		<u>57</u>	<u>889</u>			<u>57</u>	<u>869</u>
						<u>60</u>	<u>872</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 5-2-77

Test Ticket No. 21993

Recorder No. 1558

Capacity 4200

Location 2220

Clock No. 6800

Elevation 1572 Kelly Bushing

Well Temperature 98

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1065</u> P.S.I.	Open Tool	<u>8:43</u> M	
B First Initial Flow Pressure	<u>59</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> M
C First Final Flow Pressure	<u>178</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> M
D Initial Closed-in Pressure	<u>889</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> M
E Second Initial Flow Pressure	<u>193</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> M
F Second Final Flow Pressure	<u>281</u> P.S.I.			
G Final Closed-in Pressure	<u>882</u> P.S.I.			
H Final Hydrostatic Mud	<u>1054</u> P.S.I.			

PRESSURE BREAKDOWN

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

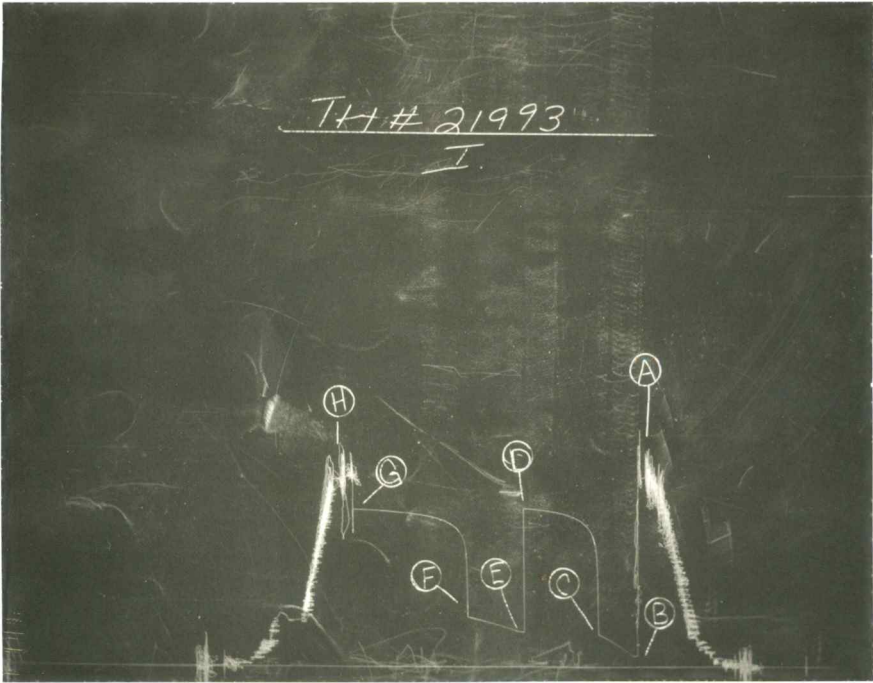
Initial Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

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

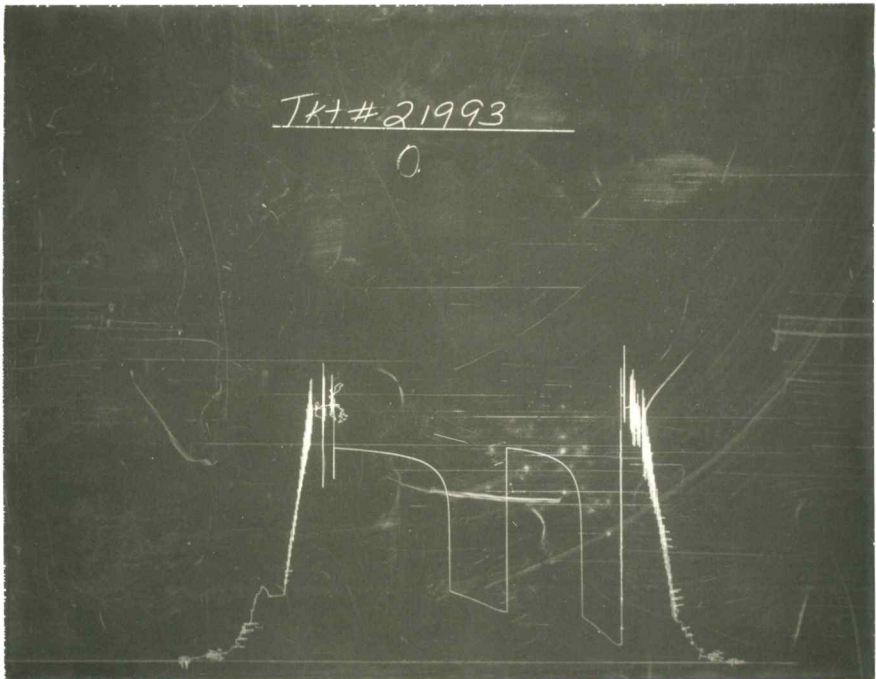
Point	Min.	Press.	Point	Minutes	Press.	Point	Minutes	Press.
P 1	<u>0</u>						<u>63</u>	<u>874</u>
P 2							<u>66</u>	<u>876</u>
P 3							<u>69</u>	<u>878</u>
P 4							<u>72</u>	<u>879</u>
P 5							<u>75</u>	<u>880</u>
P 6							<u>78</u>	<u>880</u>
P 7							<u>81</u>	<u>881</u>
P 8							<u>84</u>	<u>881</u>
P 9							<u>87</u>	<u>882</u>
P10							<u>90</u>	<u>882</u>
P11								
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TH# 21993
I.



TKT# 21993

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

Company Texas Oil & Gas Corp. Lease & Well No. Messenger A-#1

Elevation 1574 Kelly Bushing Formation - Effective Pay - Ft. Ticket No. 23011

Date 5-3-77 Sec. 24 Twp. 29S Range 8W County Kingman State Kansas

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

Formation Test No. 2 O.K. Misrun Interval Tested From 2397' to 2425' Total Depth 2425'

Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 2420 Ft. Size 6 3/4 Bottom Packer Depth 2425 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 28 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2415 Ft. Clock No. 5665 Depth 2418 Ft. Clock No. 6866

Top Make Kuster Cap. 4400 No. 2603 Inside Outside Bottom Make Kuster Cap. 4000 No. 3660 Inside Outside

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

Time Set Packer 2:46 P M

Tool Open I.F.P. From 2:48 P M. to 3:18 P M. - Hr. 30 Min. From (B) 80 P.S.I. To (C) 67 P.S.I.

Tool Closed I.C.I.P. From 3:18 P M. to 4:18 P M. 1 Hr. - Min (D) 923 P.S.I.

Tool Open F.F.P. From 4:18 P M. to 5:03 P M. - Hr. 45 Min. From (E) 100 P.S.I. To (F) 103 P.S.I.

Tool Closed F.C.I.P. From 5:03 P M. to 6:33 P M. 1 Hr. 30 Min. (G) 928 P.S.I.

Initial Hydrostatic Pressure (A) 1186 P.S.I. Final Hydrostatic Pressure (H) 1178 P.S.I. Maximum Temp. 100

INFORMATION

BLOW Good blow throughout test.

Did Well Flow - Yes No Recovery Total Ft. 180' total recovery; 60' mud, 120' muddy water.

Reversed Out - Yes No Mud Type premix Viscosity 36 Weight 9.1 Water Loss 49.4 cc. Chlorides 25,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size In. Make WTC Ser. No. 408

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

DRILLING CONTRACTOR XPLOR Drlg. Co. Length Drill Pipe? 2086 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 282 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 57 Ft.

Remarks: Chlorides check - 31,000 P.P.M. (top)
" " - 55,000 P.P.M. (middle)
" " - 90,000 P.P.M. (bottom)

WESTERN TESTING CO., INC.
Pressure Data

Date 5-3-77 Test Ticket No. 23011
 Recorder No. 2603 Capacity 4400 Location 2415
 Clock No. 5665 Elevation 1574 Kelly Bushing Well Temperature 100

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1186 P.S.I.	Open Tool	2:46 P.M.	
B First Initial Flow Pressure	80 P.S.I.	First Flow Pressure	30 Mins.	30 Mi
C First Final Flow Pressure	67 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mi
D Initial Closed-in Pressure	923 P.S.I.	Second Flow Pressure	45 Mins.	45 Mi
E Second Initial Flow Pressure	100 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mi
F Second Final Flow Pressure	103 P.S.I.			
G Final Closed-in Pressure	928 P.S.I.			
H Final Hydrostatic Mud	1178 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>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>30</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	80	0	67	0	100	0	103
P 2	5	67	3	147	5	94	3	192
P 3	10	67	6	274	10	94	6	340
P 4	15	67	9	442	15	94	9	513
P 5	20	67	12	591	20	94	12	648
P 6	25	67	15	699	25	94	15	721
P 7	30	67	18	759	30	94	18	762
P 8			21	796	35	97	21	792
P 9			24	820	40	99	24	814
P10			27	838	45	103	27	827
P11			30	851			30	840
P12			33	866			33	850
P13			36	876			36	860
P14			39	885			39	868
P15			42	891			42	873
P16			45	896			45	880
P17			48	903			48	887
P18			51	909			51	891
P19			54	914			54	896
P19			57	919			57	900
P20			60	923			60	905

WESTERN TESTING CO., INC.
Pressure Data

Date 5-3-77 Test Ticket No. 23011
 Recorder No. 2603 Capacity 4400 Location 2415
 Clock No. 5665 Elevation 1574 Kelly Bushing Well Temperature 100

Point	Pressure			Time Given	Time Computed
		P.S.I.			
A Initial Hydrostatic Mud	1186	P.S.I.	Open Tool	2:46 P M	
B First Initial Flow Pressure	80	P.S.I.	First Flow Pressure	30 Mins.	30 M
C First Final Flow Pressure	67	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 M
D Initial Closed-in Pressure	923	P.S.I.	Second Flow Pressure	45 Mins.	45 M
E Second Initial Flow Pressure	100	P.S.I.	Final Closed-in Pressure	90 Mins.	90 M
F Second Final Flow Pressure	103	P.S.I.			
G Final Closed-in Pressure	928	P.S.I.			
H Final Hydrostatic Mud	1178	P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

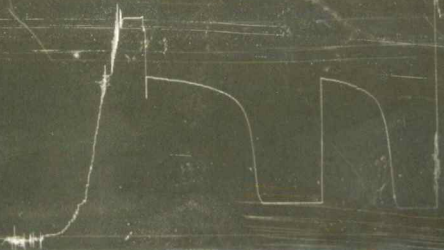
Second Flow Pressure
 Breakdown: 9 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1								63
P 2								66
P 3								69
P 4								72
P 5								75
P 6								78
P 7								81
P 8								84
P 9								87
P10								90
P11								
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

12
Ticket # 23011

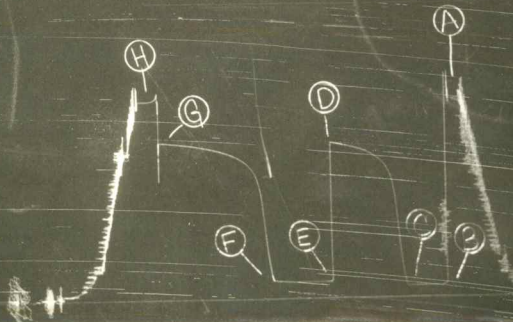
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Ticket # 23011

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

Company Texas Oil & Gas Corp. Lease & Well No. Messenger A-#1
 Elevation 1564 Ground Level Formation Toronto Effective Pay - Ft. Ticket No. 23012
 Date 5-6-77 Sec. 24 Twp. 29S Range 8W County Kingman State Kansas
 Test Approved by K.W. Dahlberg Western Representative Bill Hager
 Formation Test No. 3 O.K. Misrun Interval Tested From 3162' to 3184' Total Depth 3184'
 Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 3157 Ft. Size 6 3/4 Bottom Packer Depth 3162 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 22 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS Depth 3174 Ft. Clock No. 5665 Depth 3177 Ft. Clock No. 6866
 Top Make Kuster Cap. 4400 No. 2603 Inside Outside Bottom Make Kuster Cap. 4000 No. 3660 Inside Outside
 Below Straddle: Depth Rec. No. Clock No. Inside Outside Depth Ft. Rec. No. Clock No. Inside Outside
 Time Set Packer 10:18 P M
 Tool Open I.F.P. From 10:20 P.M. to 11:10 P.M. - Hr. 30 Min. From (B) 67 P.S.I. To (C) 72 P.S.I.
 Tool Closed I.C.I.P. From 11:10 A.M. to 12:10 A.M. 1 Hr. - Min (D) 1286 P.S.I.
 Tool Open F.F.P. From 12:10 A.M. to 12:55 A.M. - Hr. 45 Min. From (E) 117 P.S.I. To (F) 88 P.S.I.
 Tool Closed F.C.I.P. From 12:55 M. to 2:25 A.M. 1 Hr. 30 Min. (G) 1285 P.S.I.
 Initial Hydrostatic Pressure (A) 1567 P.S.I. Final Hydrostatic Pressure (H) 1567 P.S.I. Maximum Temp. 112

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 20 minutes. See attaches sheet for gas measurements.
 Did Well Flow Yes No Recovery Total Fr. 300' total recovery; 60' drilling mud, 240' muddy water.
 Reversed Out Yes No Mud Type premix Viscosity 34 Weight 9.3 Water Loss 24.3 cc. Chlorides 11,000 P.P.M.
 EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint yes Jars: Size 4 1/2 OD In. Make WTC Ser. No. 405
 Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -
 DRILLING CONTRACTOR XPLOR Drlg. Co. Length Drill Pipe? 2792 Ft. I.D. Drill Pipe 3.0 In. Tool Joint Size 4 FH In.
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 341 Ft. I.D. Drill Collars 2 1/2 In.
 Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 52 Ft.
 Remarks: Chloride check - 21,000 P.P.M. (top)
" " - 35,000 P.P.M. (middle)
" " - 78,000 P.P.M. (bottom)

WESTERN TESTING CO., INC.
Pressure Data

Date 5-6-77 Test Ticket No. 23012
 Recorder No. 2603 Capacity 4400 Location 3174 Ft
 Clock No. 5665 Elevation 1564 Ground Level Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1567</u>	P.S.I.	<u>10:18 P M</u>	
B First Initial Flow Pressure	<u>67</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Min.
C First Final Flow Pressure	<u>72</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Min.
D Initial Closed-in Pressure	<u>1286</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Min.
E Second Initial Flow Pressure	<u>117</u>	P.S.I.	<u>90</u> Mins.	<u>90</u> Min.
F Second Final Flow Pressure	<u>88</u>	P.S.I.		
G Final Closed-in Pressure	<u>1285</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1567</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	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>67</u>	<u>0</u>	<u>72</u>	<u>0</u>	<u>117</u>	<u>0</u>	<u>88</u>	
P 2 <u>5</u>	<u>58</u>	<u>3</u>	<u>349</u>	<u>5</u>	<u>79</u>	<u>3</u>	<u>433</u>	
P 3 <u>10</u>	<u>58</u>	<u>6</u>	<u>584</u>	<u>10</u>	<u>79</u>	<u>6</u>	<u>736</u>	
P 4 <u>15</u>	<u>58</u>	<u>9</u>	<u>807</u>	<u>15</u>	<u>79</u>	<u>9</u>	<u>940</u>	
P 5 <u>20</u>	<u>61</u>	<u>12</u>	<u>949</u>	<u>20</u>	<u>80</u>	<u>12</u>	<u>1062</u>	
P 6 <u>25</u>	<u>69</u>	<u>15</u>	<u>1056</u>	<u>25</u>	<u>83</u>	<u>15</u>	<u>1133</u>	
P 7 <u>30</u>	<u>72</u>	<u>18</u>	<u>1131</u>	<u>30</u>	<u>83</u>	<u>18</u>	<u>1184</u>	
P 8		<u>21</u>	<u>1184</u>	<u>35</u>	<u>86</u>	<u>21</u>	<u>1209</u>	
P 9		<u>24</u>	<u>1218</u>	<u>40</u>	<u>87</u>	<u>24</u>	<u>1226</u>	
P10		<u>27</u>	<u>1242</u>	<u>45</u>	<u>88</u>	<u>27</u>	<u>1238</u>	
P11		<u>30</u>	<u>1255</u>			<u>30</u>	<u>1246</u>	
P12		<u>33</u>	<u>1264</u>			<u>33</u>	<u>1253</u>	
P13		<u>36</u>	<u>1271</u>			<u>36</u>	<u>1258</u>	
P14		<u>39</u>	<u>1276</u>			<u>39</u>	<u>1262</u>	
P15		<u>42</u>	<u>1280</u>			<u>42</u>	<u>1264</u>	
P16		<u>45</u>	<u>1283</u>			<u>45</u>	<u>1266</u>	
P17		<u>48</u>	<u>1284</u>			<u>48</u>	<u>1269</u>	
P18		<u>51</u>	<u>1284</u>			<u>51</u>	<u>1272</u>	
P19		<u>54</u>	<u>1284</u>			<u>54</u>	<u>1274</u>	
P20		<u>57</u>	<u>1284</u>			<u>57</u>	<u>1276</u>	
		<u>60</u>	<u>1286</u>			<u>60</u>	<u>1279</u>	

WESTERN TESTING CO., INC.
Pressure Data

Date 5-6-77 Test Ticket No. 23012
 Recorder No. 2603 Capacity 4400 Location 3174 Ft.
 Clock No. 5665 Elevation 1564 Ground Level Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1567</u>	P.S.I.	<u>10:18 P M</u>	
B First Initial Flow Pressure	<u>67</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>72</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1286</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>117</u>	P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>88</u>	P.S.I.		
G Final Closed-in Pressure	<u>1285</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1567</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In	
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>30</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1				<u>63</u>	<u>1280</u>
P 2				<u>66</u>	<u>1280</u>
P 3				<u>69</u>	<u>1280</u>
P 4				<u>72</u>	<u>1281</u>
P 5				<u>75</u>	<u>1283</u>
P 6				<u>78</u>	<u>1284</u>
P 7				<u>81</u>	<u>1285</u>
P 8				<u>84</u>	<u>1285</u>
P 9				<u>87</u>	<u>1285</u>
P10				<u>90</u>	<u>1285</u>
P11					
P12					
P13					
P14					
P15					
P16					
P17					
P18					
P19					
P20					



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

GAS FLOW REPORT

Date 5-6-77 Ticket 23012 Company Texas Oil & Gas Corp.
 Well Name and No. Messenger A-#1 Dst No. 3 Interval Tested 3162' - 3184'
 County Kingman State Kansas Sec. 24 Twp. 29S Rg. 8W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitor Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
Gas to surface in 20 minutes.						
11:05PM	25 min.	20 inches	of water		¼" choke	7,510 C.F.P.D.
11:10PM	30 min.	46 inches	of water		¼" choke	11,400 C.F.P.D.

SECOND FLOW						
12:15AM	5 min.	90 inches	of water		¼" choke	15,900 C.F.P.D.
12:20AM	10 min.	38 inches	of water		½" choke	38,600 C.F.P.D.
12:25AM	15 min.	36 inches	of water		½" choke	37,600 C.F.P.D.
12:30AM	20 min.	36 inches	of water		½" choke	37,600 C.F.P.D.
12:35AM	25 min.	38 inches	of water		½" choke	38,600 C.F.P.D.
12:40AM	30 min.	40 inches	of water		½" choke	39,600 C.F.P.D.
12:45AM	35 min.	44 inches	of water		½" choke	41,600 C.F.P.D.
12:50AM	40 min.	46 inches	of water		½" choke	42,500 C.F.P.D.
12:55AM	45 min.	48 inches	of water		½" choke	43,400 C.F.P.D.

GAS BOTTLE

Serial No. 603 Date Bottle Filled 5-6-77 Date to be Invoiced 5-6-77

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

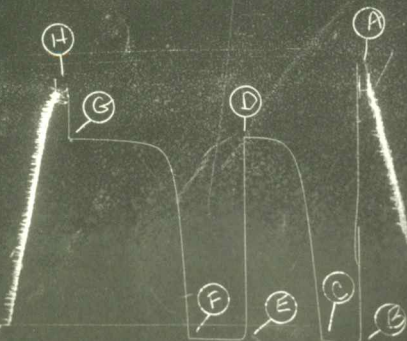
All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Texas Oil & Gas Corp.

Authorized by K.W. Dahlberg

Ticket # 23012

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

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

Elevation - Formation Swope Effective Pay - Ft. Ticket No. 23013

Date 5-7-77 Sec. 24 Twp. 29S Range 8W County Kingman State Kansas

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

Formation Test No. 4 O.K. Misrun Interval Tested From 3778' to 3799' Total Depth 3799'

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

Top Packer Depth 3773 Ft. Size 6 3/4 Bottom Packer Depth 3778 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 3789 Ft. Clock No. 5665 Depth 3792 Ft. Clock No. 6866

Top Make Kuster Cap. 4400 No. 2603 ~~Inside~~ Outside Bottom Make Kuster Cap. 4000 No. 3660 ~~Inside~~ Outside

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

Time Set Packer 6:35P. M

Tool Open I.F.P. From 6:37P M. to 7:07P M. - Hr. 30 Min. From (B) 38 P.S.I. To (C) 138 P.S.I.

Tool Closed I.C.I.P. From 7:07P M. to 8:07P M. - Hr. 60 Min (D) 1467 P.S.I.

Tool Open F.F.P. From 8:07P M. to 8:52P M. - Hr. 45 Min. From (E) 198 P.S.I. To (F) 239 P.S.I.

Tool Closed F.C.I.P. From 8:52P M. to 10:52P M. - Hr. 90 Min. (G) 1468 P.S.I.

Initial Hydrostatic Pressure (A) 1869 P.S.I. Final Hydrostatic Pressure (H) 1829 P.S.I. Maximum Temp. 121

INFORMATION

BLOW Fair blow throughout test.

Did Well Flow Yes No Recovery Total Ft. 500' of salt water with trace of oil on top.

Reversed Out Yes No Mud Type Premix Viscosity 38 Weight 9.4 Water Loss 18.4 cc. Chlorides 8,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4 1/2 OD In. Make WTC Ser. No. 405

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

DRILLING CONTRACTOR Explor Drlg. Length Drill Pipe? 3500 Ft. I.D. Drill Pipe 3.0 In. Tool Joint Size 4" In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 248 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 51 Ft.

Remarks: Chloride checked: top 58,000 PPM
 Middle 125,000 PPM
 Bottom 139,000 PPM

WESTERN TESTING CO., INC.
Pressure Data

Date 5-7-77 Test Ticket No. 23013
 Recorder No. 2603 Capacity 4400 Location 3789 Ft.
 Clock No. 5665 Elevation - Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1869</u> P.S.I.	Open Tool	<u>6:35P.</u> M	
B First Initial Flow Pressure	<u>38</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>138</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1467</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>198</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>239</u> P.S.I.			
G Final Closed-in Pressure	<u>1468</u> P.S.I.			
H Final Hydrostatic Mud	<u>1829</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>6</u> mins. and a		of <u>20</u> mins. and a		of <u>9</u> mins. and a		of <u>30</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>38</u>	<u>0</u>	<u>138</u>	<u>0</u>	<u>198</u>	<u>0</u>	<u>239</u>	
P 2 <u>5</u>	<u>45</u>	<u>3</u>	<u>712</u>	<u>5</u>	<u>190</u>	<u>3</u>	<u>745</u>	
P 3 <u>10</u>	<u>62</u>	<u>6</u>	<u>1206</u>	<u>10</u>	<u>190</u>	<u>6</u>	<u>1144</u>	
P 4 <u>15</u>	<u>80</u>	<u>9</u>	<u>1295</u>	<u>15</u>	<u>192</u>	<u>9</u>	<u>1269</u>	
P 5 <u>20</u>	<u>103</u>	<u>12</u>	<u>1340</u>	<u>20</u>	<u>198</u>	<u>12</u>	<u>1315</u>	
P 6 <u>25</u>	<u>123</u>	<u>15</u>	<u>1364</u>	<u>25</u>	<u>205</u>	<u>15</u>	<u>1342</u>	
P 7 <u>30</u>	<u>138</u>	<u>18</u>	<u>1384</u>	<u>30</u>	<u>214</u>	<u>18</u>	<u>1364</u>	
P 8		<u>21</u>	<u>1400</u>	<u>35</u>	<u>223</u>	<u>21</u>	<u>1377</u>	
P 9		<u>24</u>	<u>1411</u>	<u>40</u>	<u>234</u>	<u>24</u>	<u>1391</u>	
P10		<u>27</u>	<u>1420</u>	<u>45</u>	<u>239</u>	<u>27</u>	<u>1400</u>	
P11		<u>30</u>	<u>1429</u>			<u>30</u>	<u>1409</u>	
P12		<u>33</u>	<u>1435</u>			<u>33</u>	<u>1415</u>	
P13		<u>36</u>	<u>1442</u>			<u>36</u>	<u>1422</u>	
P14		<u>39</u>	<u>1446</u>			<u>39</u>	<u>1426</u>	
P15		<u>42</u>	<u>1449</u>			<u>42</u>	<u>1431</u>	
P16		<u>45</u>	<u>1453</u>			<u>45</u>	<u>1433</u>	
P17		<u>48</u>	<u>1458</u>			<u>48</u>	<u>1438</u>	
P18		<u>51</u>	<u>1460</u>			<u>51</u>	<u>1440</u>	
P19		<u>54</u>	<u>1462</u>			<u>54</u>	<u>1444</u>	
P20		<u>57</u>	<u>1464</u>			<u>57</u>	<u>1446</u>	
		<u>60</u>	<u>1467</u>			<u>60</u>	<u>1451</u>	

WESTERN TESTING CO., INC.
Pressure Data

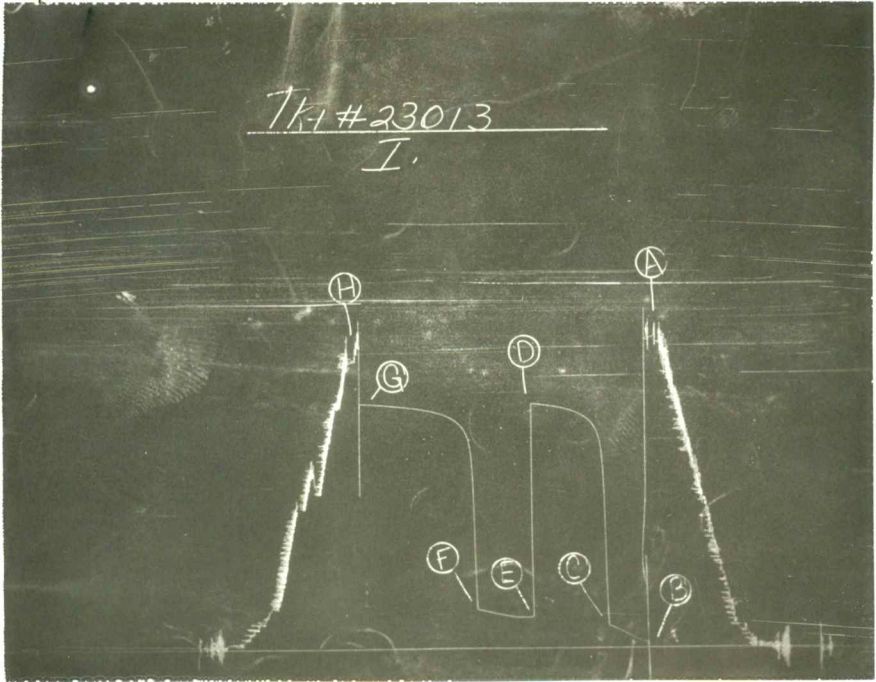
Date 5-7-77 Test Ticket No. 23013
 Recorder No. 2603 Capacity 4400 Location 3789 Ft.
 Clock No. 5665 Elevation - Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1869</u> P.S.I.	Open Tool	<u>6:35P.</u> M	
B First Initial Flow Pressure	<u>38</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>138</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1467</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>198</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>239</u> P.S.I.			
G Final Closed-in Pressure	<u>1468</u> P.S.I.			
H Final Hydrostatic Mud	<u>1829</u> P.S.I.			

PRESSURE BREAKDOWN

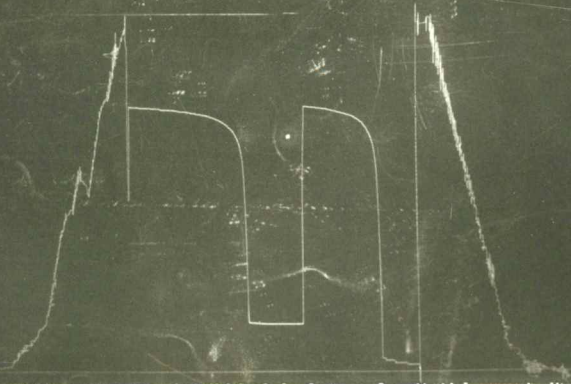
Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of	mins. and a	of	mins. and a	of	mins. and a	of	mins. and a
	final inc. of	Min.	final inc. of	Min.	final inc. of	Min.	final inc. of	Min.
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1							63	1453
P 2							66	1454
P 3							69	1455
P 4							72	1458
P 5							75	1460
P 6							78	1462
P 7							81	1464
P 8							84	1465
P 9							87	1467
P10							90	1468
P11								
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TK-#23013
I.



TKT# 23013

0.





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

Company Texas Oil & Gas Corp. Lease & Well No. Messenger A-#1
 Elevation 1572 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticker No. 23014
 Date 5-9-77 Sec. 24 Twp. 29S Range 8W County Kingman State Kansas
 Test Approved by K.W. Dahlberg Western Representative Joe N. Lusk
 Formation Test No. 5 O.K. Misrun Interval Tested From 4124' to 4134' Total Depth 4134'
 Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 4119 Ft. Size 6 3/4 Bottom Packer Depth 4124 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 10 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS Depth 4127 Ft. Clock No. 5665 Depth 4130 Ft. Clock No. 6866
 Top Make Kuster Cap. 4400 No. 2603 ~~Outside~~ ^{Inside} Bottom Make Kuster Cap. 4000 No. 3660 ~~Inside~~ ^{Outside}
 Below Straddle: Depth - Rec. No. - Clock No. - ~~Outside~~ ^{Inside} Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ ^{Outside}
 Time Set Packer 3:45 A M
 Tool Open I.F.P. From 3:47 A.M. to 4:17 A.M. - Hr. 30 Min. From (B) 56 P.S.I. To (C) 42 P.S.I.
 Tool Closed I.C.I.P. From 4:17 M. to 5:17 A.M. 1 Hr. - Min (D) 1491 P.S.I.
 Tool Open F.F.P. From 5:17 A.M. to 6:02 A.M. - Hr. 45 Min. From (E) 55 P.S.I. To (F) 42 P.S.I.
 Tool Closed F.C.I.P. From 6:02 M. to 7:32 A.M. 1 Hr. 30 Min. (G) 1477 P.S.I.
 Initial Hydrostatic Pressure (A) 2022 P.S.I. Final Hydrostatic Pressure (H) 2017 P.S.I. Maximum Temp. 126

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 15 minutes. See attached sheet for gas measurements.
 Did Well Flow - Yes No Recovery Total Ft. 80' total fluid recovery; 30' mud, 50' thin mud.
 Reversed Out - Yes No Mud Type premix Viscosity 43 Weight 9.2 Water Loss 11.3 cc. Chlorides 11,000 P.P.M.
 EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint yes Jars: Size 4 1/2 OD In. Make WTC Ser. No. 408
 Dual Packer Yes Did Packers Hold? Did Tool Plug? Where? -
 DRILLING CONTRACTOR XPLOR Drlg. Co. Length Drill Pipe? 3849 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 FH In.
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 247 Ft. I.D. Drill Collars 2 1/4 In.
 Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 38 Ft.
 Remarks: Chlorides check - 18,000 P.P.M. (top)
" " - 29,000 P.P.M. (bottom)



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

GAS FLOW REPORT

Date 5-9-77 Ticket 23014 Company Texas Oil & Gas Corp
Well Name and No. Messenger A-#1 Dst No. 5 Interval Tested 4124' - 4134'
County Kingman State Kansas Sec. 24 Twp. 29S Rg. 8W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitor Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
4:05 AM	5 min.	56 inches	of water		1/4" choke	12,600 C.F.P.D.
4:10 AM	10 min.	88 inches	of water		1/4" choke	15,700 C.F.P.D.
4:15 AM	15 min.	26 inches	of water		1/2" choke	31,900 C.F.P.D.

SECOND FLOW						
5:15 AM	0 min.	80 inches	of water		1/2" choke	56,100 C.F.P.D.
5:20 AM	5 min.	66 inches	of water		1/2" choke	50,900 C.F.P.D.
5:25 AM	10 min.	30 inches	of water		1/2" choke	34,300 C.F.P.D.
5:30 AM	15 min.	24 inches	of water		1/2" choke	30,700 C.F.P.D.
5:35 AM	20 min.	22 inches	of water		1/2" choke	29,400 C.F.P.D.
5:40 AM	25 min.	22 inches	of water		1/2" choke	29,400 C.F.P.D.
5:45 AM	30 min.	22 inches	of water		1/2" choke	29,400 C.F.P.D.
5:50 AM	35 min.	22 inches	of water		1/2" choke	29,400 C.F.P.D.
5:55 AM	40 min.	22 inches	of water		1/2" choke	29,400 C.F.P.D.
6:00 AM	45 min.	22 inches	of water		1/2" choke	29,400 C.F.P.D.

GAS BOTTLE

Serial No. 612 Date Bottle Filled 5-9-77 Date to be Invoiced 5-9-77

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

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

COMPANY'S NAME Texas Oil & Gas Corp.

Authorized by K.W. Dahlberg

WESTERN TESTING CO., INC.
Pressure Data

Date 5-9-77 Test Ticket No. 23014
 Recorder No. 2603 Capacity 4400 Location 4127 Ft.
 Clock No. 5665 Elevation 1572 Kelly Bushing Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	<u>3:45</u> P _M	
B First Initial Flow Pressure	<u>462</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u> </u> Mins.
C First Final Flow Pressure	<u>1576</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u> </u> Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u> </u> Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u> </u> 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		Pre- Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u> </u> Inc.		Breakdown: <u> </u> Inc.		Breakdown: <u> </u> Inc.		Breakdown: <u> </u> Inc.	
of <u> </u> mins. and a		of <u> </u> mins. and a		of <u> </u> mins. and a		of <u> </u> mins. and a	
final inc. of <u> </u> Min.		final inc. of <u> </u> Min.		final inc. of <u> </u> Min.		final inc. of <u> </u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1		0	462				
P 2		3	1489				
P 3		6	1533				
P 4		9	1553				
P 5		12	1562				
P 6		15	1568				
P 7		18	1573				
P 8		21	1574				
P 9		24	1575				
P10		27	1576				
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WESTERN TESTING CO., INC.
Pressure Data

Date 5-9-77 Test Ticket No. 23014
 Recorder No. 2603 Capacity 4400 Location 4127 Ft.
 Clock No. 5665 Elevation 1572 Kelly Bushing Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2022</u> P.S.I.	Open Tool	<u>3:45</u> A M	
B First Initial Flow Pressure	<u>56</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>42</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1491</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>55</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>42</u> P.S.I.			
G Final Closed-in Pressure	<u>1477</u> P.S.I.			
H Final Hydrostatic Mud	<u>2017</u> P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

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

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u> 56	<u>0</u> 42	<u>0</u> 55	<u>0</u> 41			
P 2	<u>5</u> 42	<u>3</u> 386	<u>5</u> 40	<u>3</u> 500			
P 3	<u>10</u> 42	<u>6</u> 687	<u>10</u> 40	<u>6</u> 756			
P 4	<u>15</u> 42	<u>9</u> 947	<u>15</u> 40	<u>9</u> 973			
P 5	<u>20</u> 42	<u>12</u> 1109	<u>20</u> 40	<u>12</u> 1107			
P 6	<u>25</u> 42	<u>15</u> 1226	<u>25</u> 40	<u>15</u> 1191			
P 7	<u>30</u> 42	<u>18</u> 1302	<u>30</u> 41	<u>18</u> 1249			
P 8		<u>21</u> 1349	<u>35</u> 41	<u>21</u> 1293			
P 9		<u>24</u> 1382	<u>40</u> 42	<u>24</u> 1322			
P10		<u>27</u> 1408	<u>45</u> 42	<u>27</u> 1344			
P11		<u>30</u> 1426		<u>30</u> 1364			
P12		<u>33</u> 1438		<u>33</u> 1377			
P13		<u>36</u> 1449		<u>36</u> 1391			
P14		<u>39</u> 1455		<u>39</u> 1399			
P15		<u>42</u> 1464		<u>42</u> 1410			
P16		<u>45</u> 1471		<u>45</u> 1417			
P17		<u>48</u> 1475		<u>48</u> 1425			
P18		<u>51</u> 1480		<u>51</u> 1431			
P19		<u>54</u> 1484		<u>54</u> 1438			
P20		<u>57</u> 1488		<u>57</u> 1442			
		<u>60</u> 1491		<u>60</u> 1446			

WESTERN TESTING CO., INC.
Pressure Data

Date 5-9-77 Test Ticket No. 23014
 Recorder No. 2603 Capacity 4400 Location 4127 Ft.
 Clock No. 5665 Elevation 1572 Kelly Bushing Well Temperature 126 °F

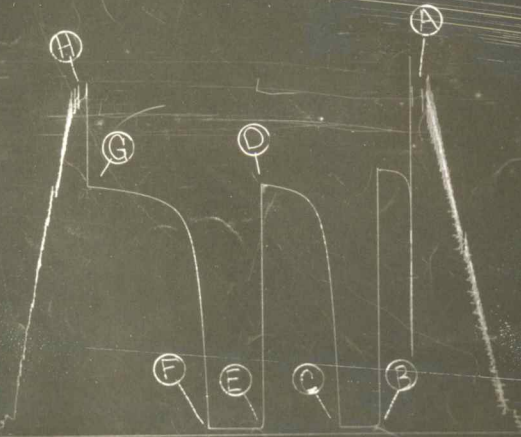
Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	P.S.I.	Open Tool		M
B. First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins.
C. First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D. Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.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

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In	
	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1				63	1451
P 2				66	1455
P 3				69	1458
P 4				72	1461
P 5				75	1466
P 6				78	1469
P 7				81	1471
P 8				84	1473
P 9				87	1475
P10				90	1477
P11					
P12					
P13					
P14					
P15					
P16					
P17					
P18					
P19					
P20					

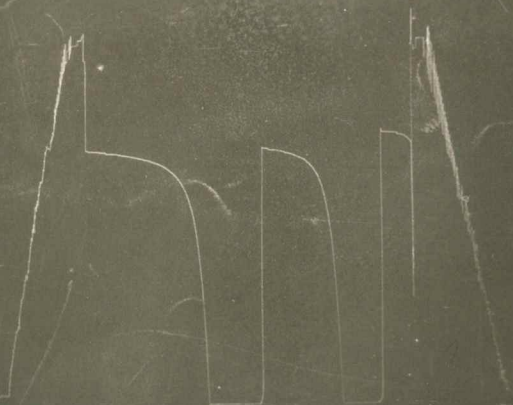
TK-#23014

I.



TK#23014

0.





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

Company Texas Oil & Gas Corp. Lease & Well No. Messenger A-#1
Elevation 1572 Kelly Bushing Formation - Effective Pay - Ft. Ticker No. 23015
Date 5-9-77 Sec. 24 Twp. 29S Range 8W County Kingman State Kansas
Test Approved by K.W. Dahlberg Western Representative Joe N. Lusk
Formation Test No. 6 O.K. Misrun Interval Tested From 4126' to 4150' Total Depth 4150'
Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 4121 Ft. Size 6 3/4 Bottom Packer Depth 4126 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 24 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4141 Ft. Clock No. 5665 Depth 4144 Ft. Clock No. 6866
Top Make Kuster Cap. 4400 No. 2603 Inside Outside Bottom Make Kuster Cap. 4000 No. 3660 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 8:33 P M
Tool Open I.F.P. From 8:35 P.M. to 9:05 P.M. - Hr. 30 Min. From (B) 78 P.S.I. To (C) 94 P.S.I.
Tool Closed I.C.I.P. From 9:05 P.M. to 10:05 P.M. 1 Hr. - Min (D) 1382 P.S.I.
Tool Open F.F.P. From 10:05 P.M. to 10:50 P.M. - Hr. 45 Min. From (E) 132 P.S.I. To (F) 163 P.S.I.
Tool Closed F.C.I.P. From 10:50 P.M. to 12:20 P.M. 1 Hr. 30 Min. (G) 1411 P.S.I.
Initial Hydrostatic Pressure (A) 1933 P.S.I. Final Hydrostatic Pressure (H) 1922 P.S.I. Maximum Temp. 132

INFORMATION

BLOW Strong blow throughout test.

Did Well Flow Yes No Recovery Total Ft. 60' slightly oil cut mud, 500' saltwater with trace of oil
Total recovery 560'.

Reversed Out Yes No Mud Type premix Viscosity 46 Weight 9.2 Water Loss 12.0 cc. Chlorides 20,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint yes Jars: Size 4 1/2 OD In. Make WTC Ser. No. 408

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

DRILLING CONTRACTOR XPLOR Drlg. Co. Length Drill Pipe? 3849 Ft. I.D. Drill Pipe 3.7 In. Tool Joint Size 4 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 247 Ft. I.D. Drill Collars 2 1/2 ID In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 54 Ft.

Remarks: Chlorides check - 20,000 P.P.M. (top)
" " - 33,000 P.P.M. (middle)
" " - 90,000 P.P.M. (bottom)

WESTERN TESTING CO., INC.
Pressure Data

Date 5-9-77 Test Ticket No. 23015
 Recorder No. 2603 Capacity 4400 Location 4141 Ft.
 Clock No. 5668 Elevation 1572 Kelly Bushing Well Temperature 132 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1933	P.S.I.	8:33 P _M	
B First Initial Flow Pressure	78	P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	94	P.S.I.	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1382	P.S.I.	45 Mins.	45 Mins.
E Second Initial Flow Pressure	132	P.S.I.	90 Mins.	90 Mins.
F Second Final Flow Pressure	163	P.S.I.		
G Final Closed-in Pressure	1411	P.S.I.		
H Final Hydrostatic Mud	1922	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>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>30</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	78	0	94	0	132	0	163
P 2 5	69	3	301	5	123	3	401
P 3 10	69	6	500	10	127	6	602
P 4 15	74	9	683	15	132	9	774
P 5 20	83	12	838	20	136	12	902
P 6 25	87	15	953	25	140	15	993
P 7 30	94	18	1036	30	147	18	1062
P 8		21	1098	35	152	21	1115
P 9		24	1151	40	158	24	1160
P10		27	1191	45	163	27	1191
P11		30	1226			30	1218
P12		33	1255			33	1244
P13		36	1280			36	1266
P14		39	1300			39	1284
P15		42	1317			42	1300
P16		45	1331			45	1313
P17		48	1344			48	1322
P18		51	1355			51	1335
P19		54	1366			54	1344
P20		57	1373			57	1353
		60	1382			60	1360

WESTERN TESTING CO., INC.

Pressure Data

Date 5-9-77 Test Ticket No. 23015
 Recorder No. 2603 Capacity 4400 Location 4141
 Clock No. 5668 Elevation 1572 Kelly Bushing Well Temperature 132

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1933	P.S.I.	8:33 P.M.	
B First Initial Flow Pressure	78	P.S.I.	30 Mins.	30 Mi
C First Final Flow Pressure	94	P.S.I.	60 Mins.	60 Mi
D Initial Closed-in Pressure	1382	P.S.I.	45 Mins.	45 Mi
E Second Initial Flow Pressure	132	P.S.I.	90 Mins.	90 Mi
F Second Final Flow Pressure	163	P.S.I.		
G Final Closed-in Pressure	1411	P.S.I.		
H Final Hydrostatic Mud	1922	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>30</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	1369
P 2						66	1373
P 3						69	1382
P 4						72	1386
P 5						75	1391
P 6						78	1395
P 7						81	1400
P 8						84	1404
P 9						87	1406
P10						90	1411
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



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

GAS FLOW REPORT

Date 5-9-77 Ticket 23015 Company Texas Oil & Gas Corp.
 Well Name and No. Messenger A-#1 Dst No. 6 Interval Tested 4126' - 4150'
 County Kingman State Kansas Sec. 24 Twp. 29S Rg. 8W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						

SECOND FLOW						
10:10PM	5 min.	18 inches	of water		¼" choke	7,120 C.F.P.D.
10:15PM	10 min.	28 inches	of water		¼" choke	8,890 C.F.P.D.
10:20PM	15 min.	26 inches	of water		¼" choke	8,560 C.F.P.D.
10:25PM	20 min.	20 inches	of water		¼" choke	7,510 C.F.P.D.
10:30PM	25 min.	20 inches	of water		¼" choke	7,510 C.F.P.D.
10:35PM	30 min.	20 inches	of water		¼" choke	7,510 C.F.P.D.
10:40PM	35 min.	20 inches	of water		¼" choke	7,510 C.F.P.D.
10:45PM	40 min.	20 inches	of water		¼" choke	7,510 C.F.P.D.
10:50PM	45 min.	20 inches	of water		¼" choke	7,510 C.F.P.D.

GAS BOTTLE

Serial No. 621 Date Bottle Filled 5-9-77 Date to be Invoiced 5-9-77

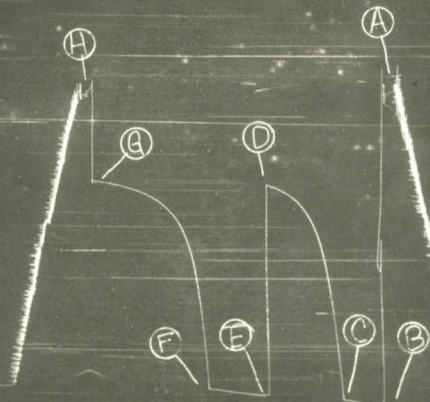
Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By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

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

COMPANY'S NAME Texas Oil & Gas Corp.
 Authorized by K.W. Dahlberg

TK#23015

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TKT#23015

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

Company Texas Oil & Gas Corp. Lease & Well No. Messenger A-#1
 Elevation 1572 Kelly Bushing Formation Chase Group Effective Pay - Ft. Ticket No. 23016
 Date 5-10-77 Sec. 24 Twp. 29S Range 8W County Kingman State Kansas
 Test Approved by K.W. Dahlberg Western Representative Joe N. Lusk
 Formation Test No. 7 O.K. Misrun Interval Tested From 1413' to 1501' Total Depth 4150'
 Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 1408 Ft. Size 6 3/4 Bottom Packer Depth 1413 Ft. Size 6 3/4
 Straddle Conv. B.T. Damaged Yes No Packer Depth 1501 Ft. Size 6 3/4
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 88 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS Depth 1489 Ft. Clock No. 5665 Depth 1492 Ft. Clock No. 6894
 Top Make Kuster Cap. 4400 No. 2603 Inside Outside Bottom Make Kuster Cap. 4000 No. 3660 Inside Outside
 Below Straddle: Depth 1550 Rec. No. 3351 Clock No. 6895 Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
 Time Set Packer 8:03 P.M.
 Tool Open I.F.P. From 8:05 P.M. to 8:25 P.M. - Hr. 20 Min. From (B) 61 P.S.I. To (C) 61 P.S.I.
 Tool Closed I.C.I.P. From 8:25 P.M. to 9:05 P.M. - Hr. 40 Min (D) 513 P.S.I.
 Tool Open F.F.P. From 9:05 P.M. to 9:30 P.M. - Hr. 25 Min. From (E) 109 P.S.I. To (F) 96 P.S.I.
 Tool Closed F.C.I.P. From 9:30 P.M. to 10:20 P.M. - Hr. 50 Min. (G) 484 P.S.I.
 Initial Hydrostatic Pressure (A) 714 P.S.I. Final Hydrostatic Pressure (H) 710 P.S.I. Maximum Temp. 88

INFORMATION

BLOW Weak blow throughout test.
 Did Well Flow - Yes No Recovery Total Ft. 50' drilling mud.
 Reversed Out - Yes No Mud Type premix Viscosity 38 Weight 9.1 Water Loss 10.0 cc. Chlorides 14,000 P.P.M.
 EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint yes Jars: Size 4 1/2 OD In. Make WTC Ser. No. 408
 Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -
 DRILLING CONTRACTOR XPLOR Drlg. Co. Length Drill Pipe? 1135 Ft. I.D. Drill Pipe 3.7 In. Tool Joint Size 4 FH In.
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 250 Ft. I.D. Drill Collars 2 1/2 In.
 Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 116 Ft.
 Remarks: Tool slid on initial closed in period. Chlorides check - 15,000 P.P.M. (bottom)

WESTERN TESTING CO., INC.
Pressure Data

Date 5-10-77 Test Ticket No. 23016
 Recorder No. 2603 Capacity 4400 Location 1489 Ft.
 Clock No. 5665 Elevation 1572 Kelly Bushing Well Temperature 88 °F

Point	Pressure	P.S.I.		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>714</u>	P.S.I.	Open Tool	<u>8:03 P</u>	<u>M</u>
B. First Initial Flow Pressure	<u>61</u>	P.S.I.	First Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
C. First Final Flow Pressure	<u>61</u>	P.S.I.	Initial Closed-in Pressure	<u>40</u> Mins.	<u>39</u> Mins.
D. Initial Closed-in Pressure	<u>513</u>	P.S.I.	Second Flow Pressure	<u>25</u> Mins.	<u>25</u> Mins.
E. Second Initial Flow Pressure	<u>109</u>	P.S.I.	Final Closed-in Pressure	<u>50</u> Mins.	<u>51</u> Mins.
F. Second Final Flow Pressure	<u>96</u>	P.S.I.			
G. Final Closed-in Pressure	<u>484</u>	P.S.I.			
H. Final Hydrostatic Mud	<u>710</u>	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 4 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 13 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

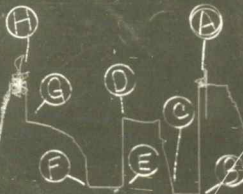
Second Flow Pressure
 Breakdown: 5 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 17 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 <u>0</u>	<u>61</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>109</u>	<u>0</u>	<u>96</u>
P 2 <u>5</u>	<u>61</u>	<u>3</u>	<u>201</u>	<u>5</u>	<u>96</u>	<u>3</u>	<u>154</u>
P 3 <u>10</u>	<u>61</u>	<u>6</u>	<u>301</u>	<u>10</u>	<u>96</u>	<u>6</u>	<u>290</u>
P 4 <u>15</u>	<u>61</u>	<u>9</u>	<u>388</u>	<u>15</u>	<u>96</u>	<u>9</u>	<u>330</u>
P 5 <u>20</u>	<u>61</u>	<u>12</u>	<u>502</u>	<u>20</u>	<u>96</u>	<u>12</u>	<u>361</u>
P 6 _____	_____	<u>15</u>	<u>491</u>	<u>25</u>	<u>96</u>	<u>15</u>	<u>390</u>
P 7 _____	_____	<u>18</u>	<u>491</u>	_____	_____	<u>18</u>	<u>404</u>
P 8 _____	_____	<u>21</u>	<u>491</u>	_____	_____	<u>21</u>	<u>417</u>
P 9 _____	_____	<u>24</u>	<u>491</u>	_____	_____	<u>24</u>	<u>431</u>
P10 _____	_____	<u>27</u>	<u>494</u>	_____	_____	<u>27</u>	<u>440</u>
P11 _____	_____	<u>30</u>	<u>500</u>	_____	_____	<u>30</u>	<u>448</u>
P12 _____	_____	<u>33</u>	<u>504</u>	_____	_____	<u>33</u>	<u>460</u>
P13 _____	_____	<u>36</u>	<u>510</u>	_____	_____	<u>36</u>	<u>464</u>
P14 _____	_____	<u>39</u>	<u>513</u>	_____	_____	<u>39</u>	<u>469</u>
P15 _____	_____	_____	_____	_____	_____	<u>42</u>	<u>475</u>
P16 _____	_____	_____	_____	_____	_____	<u>45</u>	<u>478</u>
P17 _____	_____	_____	_____	_____	_____	<u>48</u>	<u>482</u>
P18 _____	_____	_____	_____	_____	_____	<u>51</u>	<u>484</u>
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

TKT# 23016

I.



TKT # 23016

0.

TKT #23016
Below straddle

