



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

Company Texas Oil & Gas Corp. Lease & Well No. Muir #B-1
Elevation 1426 Kelly Bush. Formation Swope Effective Pay - Ft. Ticket No. 23043
Date 9-27-77 Sec. 16 Twp. 32S Range 7W County Harper State Kansas
Test Approved by Richard Hamm Western Representative Rod Tritt
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 3970' to 3996' Total Depth 3996'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 3957 Ft. Size 6 3/4 Bottom Packer Depth 3970 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 XH Anchor Length 26 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3984 Ft. Clock No. 4763 Depth 3987 Ft. Clock No. 9726
Top Make Kuster Cap. 4150 No. 2604 Inside Bottom Make Kuster Cap. 4150 No. 2606 Inside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Depth - Ft. Rec. No. - Clock No. - Inside
Time Set Packer 9:10P. M
Tool Open I.F.P. From 9:10P M. to 9:40P M. - Hr. 30 Min. From (B) 107 P.S.I. To (C) 105 P.S.I.
Tool Closed I.C.I.P. From 9:40P M. to 10:40P M. - Hr. 60 Min (D) 1439 P.S.I.
Tool Open F.F.P. From 10:40P M. to 11:25P M. - Hr. 45 Min. From (E) 151 P.S.I. To (F) 155 P.S.I.
Tool Closed F.C.I.P. From 11:25P M. to 12:55A M. - Hr. 30 Min. (G) 1431 P.S.I.
Initial Hydrostatic Pressure (A) 1884 P.S.I. Final Hydrostatic Pressure (H) 1867 P.S.I. Maximum Temp. 126

INFORMATION

BLOW Good blow throughout test.

Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 250' total recovery. 70' of drilling mud, 180' of muddy water.

Reversed Out - Yes ☒ No ☐ Mud Type Premix Viscosity 38 Weight 9.0 Water Loss 22.8 cc. Chlorides 15,500 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4 1/2 OD In. Make W.T.C. Ser. No. 408

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

DRILLING CONTRACTOR H-30, Inc. Length Drill Pipe? 3685 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

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

Tool Joint Size 4H-90 In. Length D.S.T. Tool 62 Ft.

Remarks: Slid tool 10' to bottom. Chlorides checked: Top 28,000 PPM
Middle 38,000 PPM
Bottom 70,000 PPM

WESTERN TESTING CO., INC.

Pressure Data

Date 9-27-77 Test Ticket No. 23043
 Recorder No. 2604 Capacity 4150 Location 3984 Ft.
 Clock No. 4763 Elevation 1426 Kelly Bushing Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1884</u>	P.S.I.	9:10	M
B First Initial Flow Pressure	<u>107</u>	P.S.I.	30	Mins. 25
C First Final Flow Pressure	<u>105</u>	P.S.I.	60	Mins. 60
D Initial Closed-in Pressure	<u>1439</u>	P.S.I.	45	Mins. 45
E Second Initial Flow Pressure	<u>151</u>	P.S.I.	90	Mins. 90
F Second Final Flow Pressure	<u>155</u>	P.S.I.		
G Final Closed-in Pressure	<u>1431</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1867</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</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 <u>0</u>	<u>107</u>	<u>0</u>	<u>105</u>	<u>0</u>	<u>151</u>	<u>0</u>	<u>155</u>
P 2 <u>5</u>	<u>87</u>	<u>3</u>	<u>199</u>	<u>5</u>	<u>135</u>	<u>3</u>	<u>212</u>
P 3 <u>10</u>	<u>90</u>	<u>6</u>	<u>476</u>	<u>10</u>	<u>137</u>	<u>6</u>	<u>472</u>
P 4 <u>15</u>	<u>94</u>	<u>9</u>	<u>780</u>	<u>15</u>	<u>141</u>	<u>9</u>	<u>728</u>
P 5 <u>20</u>	<u>100</u>	<u>12</u>	<u>1159</u>	<u>20</u>	<u>146</u>	<u>12</u>	<u>1016</u>
P 6 <u>25</u>	<u>105</u>	<u>15</u>	<u>1179</u>	<u>25</u>	<u>149</u>	<u>15</u>	<u>1167</u>
P 7 <u>30</u>		<u>18</u>	<u>1246</u>	<u>30</u>	<u>151</u>	<u>18</u>	<u>1230</u>
P 8		<u>21</u>	<u>1291</u>	<u>35</u>	<u>152</u>	<u>21</u>	<u>1274</u>
P 9		<u>24</u>	<u>1325</u>	<u>40</u>	<u>153</u>	<u>24</u>	<u>1301</u>
P10		<u>27</u>	<u>1347</u>	<u>45</u>	<u>155</u>	<u>27</u>	<u>1321</u>
P11		<u>30</u>	<u>1366</u>			<u>30</u>	<u>1335</u>
P12		<u>33</u>	<u>1380</u>			<u>33</u>	<u>1348</u>
P13		<u>36</u>	<u>1391</u>			<u>36</u>	<u>1359</u>
P14		<u>39</u>	<u>1401</u>			<u>39</u>	<u>1370</u>
P15		<u>42</u>	<u>1410</u>			<u>42</u>	<u>1377</u>
P16		<u>45</u>	<u>1415</u>			<u>45</u>	<u>1385</u>
P17		<u>48</u>	<u>1422</u>			<u>48</u>	<u>1391</u>
P18		<u>51</u>	<u>1428</u>			<u>51</u>	<u>1397</u>
P19		<u>54</u>	<u>1433</u>			<u>54</u>	<u>1400</u>
P20		<u>57</u>	<u>1435</u>			<u>57</u>	<u>1406</u>
		<u>60</u>	<u>1439</u>				

WESTERN TESTING CO., INC.

Pressure Data

Date 9-27-77 Test Ticket No. 23043
 Recorder No. 2604 Capacity 4150 Location 3984 Ft.
 Clock No. 4763 Elevation 1426 Kelly Bushing Well Temperature 126 °F

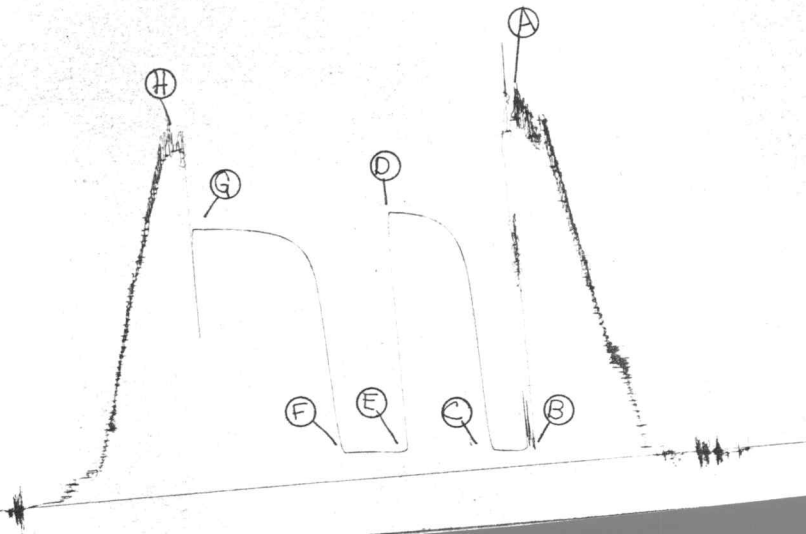
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1884</u> P.S.I.	<u>9:10</u> M	
B First Initial Flow Pressure	<u>107</u> P.S.I.	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>105</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1439</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>151</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>155</u> P.S.I.		
G Final Closed-in Pressure	<u>1431</u> P.S.I.		
H Final Hydrostatic Mud	<u>1867</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</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						60	1410
P 2						63	1412
P 3						66	1416
P 4						69	1418
P 5						72	1421
P 6						75	1423
P 7						78	1425
P 8						81	1428
P 9						84	1429
P10						87	1431
P11						90	1431
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

2604

TK+ #23043
I.





WESTERN TESTING CO., INC. FORMATION TESTING

TICKET

23043

P. O. BOX 793

PHONE 793-7903

GREAT BEND, KANSAS

Formation Swage Elevation 1426 LB Eff. Pay _____ Ft.

District

Peatt

Date

9-27

Customer Order No. _____

COMPANY NAME

TEXAS OIL & GAS - Co.

ADDRESS _____

LEASE AND WELL NO.

Muir B #1

COUNTY

Harper

STATE

Kansas

Sec.

14

Twp

32S

Rge.

7W

Mail Inv. To _____

Co. Name _____

Address _____

No. Copies Requested 5

Mail Charts To _____

Address _____

No. Copies Requested _____

Formation Test No.

1

O.K.

X

Misrun

-

Interval Tested From

3970

to

3996

Total Depth

3996

Size Main Hole

7 3/8

Rat Hole

-

Conv.

-

B.T.

X

Damaged

Yes

X

No

Conv.

X

B.T.

-

Damaged

Yes

X

No

-

Top Packer Depth

3957

Ft.

Size

6 3/4 OD

Bottom Packer Depth

3970

Ft.

Size

6 3/4 OD

Straddle

-

Conv.

-

B.T.

-

Damaged

-

Yes

-

No

-

Packer Depth

-

Ft.

Size

-

Tool Size

5 3/4 OD

Tool Joint Size

4 1/2 X 11

Anchor Length

26

Ft.

Size

5 3/4 OD

Surface Choke Size

3/4

In. Bottom Choke Size

3/4

In.

RECORDERS

Depth

3984

Ft.

Clock No.

4763

Depth

3987

Ft.

Clock No.

9726

Top Make

Kuster

Cap.

4150

No.

2604

Inside

Outside

Inside

Below Straddle: Depth

-

Rec. No.

-

Clock No.

-

Outside

Inside

Depth

-

Ft.

Rec. No.

-

Clock No.

-

Outside

Inside

Time Set Packer

9:10

M

Tool Open I.F.P. From

9:10

M. to

9:40

Hr.

30

Min. From (B)

74

P.S.I. To (C)

107

P.S.I.

85-105

Tool Closed I.C.I.P. From

9:40

M. to

10:40

Hr.

60

Min. (D)

127

P.S.I. To (F)

1439

P.S.I.

149

P.S.I.

155

Tool Open F.F.P. From

10:40

M. to

11:25

Hr.

45

Min. From (E)

127

P.S.I. To (F)

1439

P.S.I.

149

P.S.I.

155

Tool Closed F.C.I.P. From

11:25

M. to

12:55

Hr.

30

Min. (G)

1422

P.S.I. To (F)

1431

P.S.I.

1431

P.S.I.

1431

Initial Hydrostatic Pressure (A)

1873

P.S.I.

Final Hydrostatic Pressure (H)

1852

P.S.I.

Maximum Temp.

126

P.S.I.

126

P.S.I.

126

P.S.I.

126

P.S.I.

126

P.S.I.

126

P.S.I.

126

P.S.I.

126

P.S.I.

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P.S.I.

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P.S.I.

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P.S.I.

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P.S.I.

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P.S.I.

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P.S.I.

126

P.S.I.

126

P.S.I.

126

P.S.I.

126

P.S.I.

126

P.S.I.

Initial Hydrostatic Pressure (A)

1873

P.S.I.

Final Hydrostatic Pressure (H)

1852

P.S.I.

Maximum Temp.

126

P.S.I.

126

P.S.I.

126

P.S.I.

126

P.S.I.

126

P.S.I.

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P.S.I.

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P.S.I.

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P.S.I.

126

P.S.I.

126

P.S.I.

126

P.S.I.

126

P.S.I.

126

P.S.I.

BLOW

Good blow through out Test

Did Well Flow

Yes

X

No

Recovery Total Ft.

250 ft.

70 ft. DRUG. MUD - 180 ft. MUDDY WATER

180 ft. MUDDY WATER

Reversed Out

Yes

X

No

Mud Type

Premix

Viscosity

38

Weight

9.0

Water Loss

22.8

cc. Chlorides

15,500

EXTRA EQUIPMENT: Type

Circ.

Sub.

Yes

Safety Joint

Yes

Jars: Size

4500

In. Make

W.T.C

Ser. No.

408

Dual Packers

Yes

Did Packers Hold?

Yes

Did Tool Plug?

NO

Where?

-

DRILLING CONTRACTOR

H-30 Inc

Length Drill Pipe

3685

ft. I.D. Drill Pipe

3.8

In. Tool Joint Size

4 1/2 X 11

Length Weight Pipe

-

ft. I.D. Weight Pipe

-

In. Tool Joint Size

-

Length Drill Collars

248

ft. I.D. Drill Collars

2 1/2 X 11

In. Tool Joint Size

WESTERN TESTING CO., INC.
Pressure Data

Date 9-27-77 Test Ticket No. 23043
Recorder No. 2604 Capacity 4150 Location 3984 Ft.
Clock No. 4763 Elevation 1426 Kelly Bushing Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1884</u> P.S.I.	Open Tool	<u>9:10</u> M	
B First Initial Flow Pressure	<u>107</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>105</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1439</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>151</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>155</u> P.S.I.			
G Final Closed-in Pressure	<u>1431</u> P.S.I.			
H Final Hydrostatic Mud	<u>1867</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</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 <u>0</u>	<u>107</u>	<u>0</u>	<u>105</u>	<u>0</u>	<u>151</u>	<u>0</u>	<u>155</u>
P 2 <u>5</u>	<u>87</u>	<u>3</u>	<u>199</u>	<u>5</u>	<u>135</u>	<u>3</u>	<u>212</u>
P 3 <u>10</u>	<u>90</u>	<u>6</u>	<u>476</u>	<u>10</u>	<u>137</u>	<u>6</u>	<u>472</u>
P 4 <u>15</u>	<u>94</u>	<u>9</u>	<u>780</u>	<u>15</u>	<u>141</u>	<u>9</u>	<u>728</u>
P 5 <u>20</u>	<u>100</u>	<u>12</u>	<u>1159</u>	<u>20</u>	<u>146</u>	<u>12</u>	<u>1016</u>
P 6 <u>25</u>	<u>105</u>	<u>15</u>	<u>1179</u>	<u>25</u>	<u>149</u>	<u>15</u>	<u>1167</u>
P 7 <u>30</u>		<u>18</u>	<u>1246</u>	<u>30</u>	<u>151</u>	<u>18</u>	<u>1230</u>
P 8 <u>35</u>		<u>21</u>	<u>1291</u>	<u>35</u>	<u>152</u>	<u>21</u>	<u>1274</u>
P 9 <u>40</u>		<u>24</u>	<u>1325</u>	<u>40</u>	<u>153</u>	<u>24</u>	<u>1301</u>
P 10 <u>45</u>		<u>27</u>	<u>1347</u>	<u>45</u>	<u>155</u>	<u>27</u>	<u>1321</u>
P 11 <u>50</u>		<u>30</u>	<u>1366</u>	<u>50</u>		<u>30</u>	<u>1335</u>
P 12 <u>55</u>		<u>33</u>	<u>1380</u>	<u>55</u>		<u>33</u>	<u>1348</u>
P 13 <u>60</u>		<u>36</u>	<u>1391</u>	<u>60</u>		<u>36</u>	<u>1359</u>
P 14		<u>39</u>	<u>1401</u>	<u>65</u>		<u>39</u>	<u>1370</u>
P 15		<u>42</u>	<u>1410</u>	<u>70</u>		<u>42</u>	<u>1377</u>
P 16		<u>45</u>	<u>1415</u>	<u>75</u>		<u>45</u>	<u>1385</u>
P 17		<u>48</u>	<u>1422</u>	<u>80</u>		<u>48</u>	<u>1391</u>
P 18		<u>51</u>	<u>1428</u>	<u>85</u>		<u>51</u>	<u>1397</u>
P 19		<u>54</u>	<u>1433</u>	<u>90</u>		<u>54</u>	<u>1400</u>
P 20		<u>57</u>	<u>1435</u>			<u>57</u>	<u>1406</u>
		<u>60</u>	<u>1439</u>				

WESTERN TESTING CO., INC.

Pressure Data

Date _____ Test Ticket No. _____
 Recorder No. _____ Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

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

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of 5 mins. and a _____		of 3 mins. and a _____		of 5 mins. and a _____		of 3 mins. and a _____	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	_____	0	_____	0	_____	60	1410
P 2 5	_____	3	_____	5	_____	63	1412
P 3 10	_____	6	_____	10	_____	66	1416
P 4 15	_____	9	_____	15	_____	69	1418
P 5 20	_____	12	_____	20	_____	72	1421
P 6 25	_____	15	_____	25	_____	75	1423
P 7 30	_____	18	_____	30	_____	78	1425
P 8 35	_____	21	_____	35	_____	81	1428
P 9 40	_____	24	_____	40	_____	84	1429
P10 45	_____	27	_____	45	_____	87	1431
P11 50	_____	30	_____	50	_____	90	1431
P12 55	_____	33	_____	55	_____	83	_____
P13 60	_____	36	_____	60	_____	36	_____
P14 _____	_____	39	_____	65	_____	39	_____
P15 _____	_____	42	_____	70	_____	42	_____
P16 _____	_____	45	_____	75	_____	45	_____
P17 _____	_____	48	_____	80	_____	48	_____
P18 _____	_____	51	_____	85	_____	51	_____
P19 _____	_____	54	_____	90	_____	54	_____
P20 _____	_____	57	_____	_____	_____	57	_____
		60				60	



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

Company Texas Oil & Gas Corp. Lease & Well No. Muir B-#1
Elevation 1426 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 23044
Date 9-29-77 Sec. 16 Twp. 32S Range 7W County Harper State Kansas
Test Approved by Richard Hamm Western Representative Rod Tritt
Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 4393' to 4411' Total Depth 4411'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 4388 Ft. Size 6 3/4 OD Bottom Packer Depth 4393 Ft. Size 6 3/4 OD
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 4400 Ft. Clock No. 4763 Depth 4405 Ft. Clock No. 9726
Top Make Kuster Cap. 4150 No. 2604 ~~Inside~~ Outside Bottom Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside
Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside
Time Set Packer 9:00P M
Tool Open I.F.P. From 9:00P M. to 9:30P M. - Hr. 30 Min. From (B) 58 P.S.I. To (C) 32 P.S.I.
Tool Closed I.C.I.P. From 9:30P M. to 10:30P M. - Hr. 60 Min (D) 788 P.S.I.
Tool Open F.F.P. From 10:30P M. to 11:15P M. - Hr. 45 Min. From (E) 55 P.S.I. To (F) 36 P.S.I.
Tool Closed F.C.I.P. From 11:15P M. to 12:45A M. - Hr. 90 Min. (G) 1069 P.S.I.
Initial Hydrostatic Pressure (A) 2095 P.S.I. Final Hydrostatic Pressure (H) 2078 P.S.I. Maximum Temp. 132

INFORMATION

BLOW Strong blow throughout test.
Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 10' drilling mud.
Reversed Out - Yes ☒ No ☐ Mud Type Premix Viscosity 37 Weight 9.0 Water Loss 10.8 cc. Chlorides 10,500 p.p.m.
EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4 1/2 OD In. Make W.T.C. Ser. No. 408
Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -
DRILLING CONTRACTOR H-30 Inc. Length Drill Pipe? 4115 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.
Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 248 Ft. I.D. Drill Collar 2 1/4 ID In.
Tool Joint Size 4-H90 In. Length D.S.T. Tool 48 Ft.
Remarks: Slid tool 7' to bottom. Chloride check: 17,000 p.p.m. Clock #9726 stopped.

WESTERN TESTING CO., INC.

Pressure Data

Date 9-29-77 Test Ticket No. 23044
 Recorder No. 2604 Capacity 4150 Location 4400 Ft.
 Clock No. 4763 Elevation 1426 Kelly Bushing Well Temperature 132 °F

Point	Pressure		Time Given	Time Computed
			9:00P	M
A Initial Hydrostatic Mud	2095 P.S.I.	Open Tool	30 Mins.	25 Mins.
B First Initial Flow Pressure	58 P.S.I.	First Flow Pressure	60 Mins.	72 Mins.
C First Final Flow Pressure	32 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	788 P.S.I.	Second Flow Pressure	90 Mins.	96 Mins.
E Second Initial Flow Pressure	55 P.S.I.	Final Closed-in Pressure		
F Second Final Flow Pressure	36 P.S.I.			
G Final Closed-in Pressure	1069 P.S.I.			
H Final Hydrostatic Mud	2078 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>24</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 <u>0</u>	<u>58</u>	<u>0</u>	<u>32</u>	<u>0</u>	<u>55</u>	<u>0</u>	<u>36</u>
P 2 <u>5</u>	<u>38</u>	<u>3</u>	<u>81</u>	<u>5</u>	<u>36</u>	<u>3</u>	<u>51</u>
P 3 <u>10</u>	<u>32</u>	<u>6</u>	<u>143</u>	<u>10</u>	<u>32</u>	<u>6</u>	<u>90</u>
P 4 <u>15</u>	<u>32</u>	<u>9</u>	<u>184</u>	<u>15</u>	<u>32</u>	<u>9</u>	<u>143</u>
P 5 <u>20</u>	<u>32</u>	<u>12</u>	<u>223</u>	<u>20</u>	<u>32</u>	<u>12</u>	<u>195</u>
P 6 <u>25</u>	<u>32</u>	<u>15</u>	<u>256</u>	<u>25</u>	<u>32</u>	<u>15</u>	<u>240</u>
P 7		<u>18</u>	<u>286</u>	<u>30</u>	<u>32</u>	<u>18</u>	<u>285</u>
P 8		<u>21</u>	<u>323</u>	<u>35</u>	<u>34</u>	<u>21</u>	<u>325</u>
P 9		<u>24</u>	<u>355</u>	<u>40</u>	<u>35</u>	<u>24</u>	<u>367</u>
P10		<u>27</u>	<u>387</u>	<u>45</u>	<u>36</u>	<u>27</u>	<u>404</u>
P11		<u>30</u>	<u>417</u>			<u>30</u>	<u>445</u>
P12		<u>33</u>	<u>448</u>			<u>33</u>	<u>483</u>
P13		<u>36</u>	<u>476</u>			<u>36</u>	<u>520</u>
P14		<u>39</u>	<u>507</u>			<u>39</u>	<u>554</u>
P15		<u>42</u>	<u>536</u>			<u>42</u>	<u>589</u>
P16		<u>45</u>	<u>563</u>			<u>45</u>	<u>619</u>
P17		<u>48</u>	<u>592</u>			<u>48</u>	<u>650</u>
P18		<u>51</u>	<u>619</u>			<u>51</u>	<u>684</u>
P19		<u>54</u>	<u>645</u>			<u>54</u>	<u>717</u>
P20		<u>57</u>	<u>669</u>			<u>57</u>	<u>747</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 9-29-77 Test Ticket No. 23044
 Recorder No. 2604 Capacity 4150 Location 4400 Ft.
 Clock No. 4763 Elevation 1426 Kelly Bushing Well Temperature 132 °F

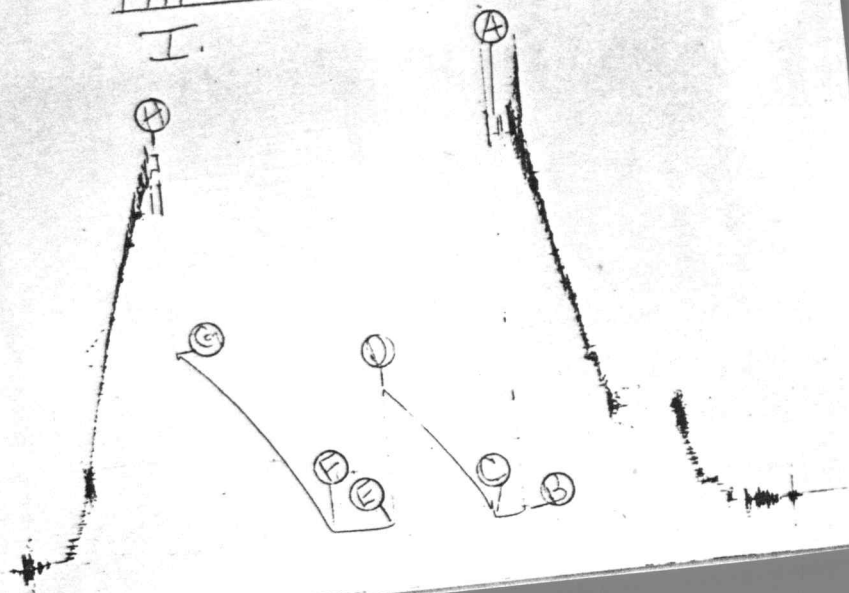
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2095</u> P.S.I.	Open Tool	<u>9:00P</u> M	
B First Initial Flow Pressure	<u>58</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>32</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>72</u> Mins.
D Initial Closed-in Pressure	<u>788</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>96</u> Mins.
F Second Final Flow Pressure	<u>36</u> P.S.I.			
G Final Closed-in Pressure	<u>1069</u> P.S.I.			
H Final Hydrostatic Mud	<u>2078</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>24</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		<u>60</u>	<u>696</u>			<u>60</u>	<u>778</u>
P 2		<u>63</u>	<u>672</u>			<u>63</u>	<u>805</u>
P 3		<u>66</u>	<u>746</u>			<u>66</u>	<u>834</u>
P 4		<u>69</u>	<u>772</u>			<u>69</u>	<u>857</u>
P 5		<u>72</u>	<u>788</u>			<u>72</u>	<u>887</u>
P 6						<u>75</u>	<u>911</u>
P 7						<u>78</u>	<u>937</u>
P 8						<u>81</u>	<u>961</u>
P 9						<u>84</u>	<u>981</u>
P10						<u>87</u>	<u>1004</u>
P11						<u>90</u>	<u>1026</u>
P12						<u>93</u>	<u>1049</u>
P13						<u>96</u>	<u>1069</u>
P14							
P15							
P16							
P17							
P18							
P19							
P20							

2604
TK# 23044

I.



TKI# 23044

0.



P. O. BOX 793

PHONE 793-7903

GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

23044

Formation Mississippi Elevation 1426 KB Eff. Pay _____ Ft.District PRATTDate 9-29

Customer Order No. _____

COMPANY NAME Texas Oil & Gas Corp.ADDRESS 200 W. Douglas Suite 300 Wichita, Mo. 67202LEASE AND WELL NO. Muir B #1 COUNTY HARPER STATE KANSAS Sec. 16 Twp. 32S Rge. 7W

Mail Inv. To _____

Co. Name _____

Address _____

No. Copies Requested _____

Mail Charts To _____

Address _____

No. Copies Requested _____

Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 4393' to 4411' Total Depth 4411'

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

Top Packer Depth 9388 Ft. Size 6 3/4 OD Bottom Packer Depth 4393 Ft. Size 6 3/4 OD

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

Tool Size 5200 Tool Joint Size 42 KN Anchor Length 18 Ft. Size 5200 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4400 Ft. Clock No. 4763 Depth 4405 Ft. Clock No. 9726

Top Make Kuster Cap. 4150 No. 2604 Inside ☐ Outside ☐ Bottom Make Kuster Cap. 4150 No. 2606 Inside ☐ Outside ☐

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

Time Set Packer 9:00 P. M.

Tool Open I.F.P. From 9:00 P.M. to 9:30 P.M. Hr. 30 Min. From (B) 3158 P.S.I. To (C) 3132 P.S.I.

Tool Closed I.C.I.P. From 9:30 P.M. to 10:30 P.M. Hr. 60 Min. (D) 794 788 P.S.I.

Tool Open F.F.P. From 10:30 P.M. to 11:15 P.M. Hr. 45 Min. From (E) 3155 P.S.I. To (F) 3136 P.S.I.

Tool Closed F.C.I.P. From 11:15 P.M. to 12:45 A.M. Hr. 30 Min. (G) 1056 1069 P.S.I.

Initial Hydrostatic Pressure (A) 2105 2095 P.S.I. Final Hydrostatic Pressure (H) 2084 2078 P.S.I. Maximum Temp. 132

INFORMATION

BLOW Strong blow through out TestDid Well Flow Yes ☒ No ☐ Recovery Total Ft. 104 ft DRG. mudReversed Out Yes ☒ No ☐ Mud Type PEM IX Viscosity 37 Weight 9.0 Water Loss 10.8 cc. Chlorides 10.500EXTRA EQUIPMENT: Type Circ. Sub. Yes Safety Joint Yes Jars: Size 4200 In. Make W.T.C. Ser. No. 408Dual Packers Yes Did Packers Hold? Yes Did Tool Plug? No Where? —DRILLING CONTRACTOR H3D INC Length Drill Pipe 4115 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.Length Weight Pipe — ft. I.D. Weight Pipe — In. Tool Joint Size — In. Length Drill Collars 248 ft. I.D. Drill Collars 2 1/2 In.Tool Joint Size 4-490 In. Length D.S.T. Tool 48 ft.Remarks Slide tool 7 ft to bottom

INVOICE SECTION

Open Hole Test \$ 415.00

Straddle Test \$ —

Jars \$ 175.00

Selective Zone \$ —

Safety Joint \$ 30.00

Misrun \$ —

Evaluation \$ —

Packer \$ —

Circ. Sub. \$ —

Total \$ 620.00

COMPANY TERMS

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

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Richard HammSignature of Customer or his
Authorized RepresentativeRichard HammWestern Representative Paul DriftOperator's Time Shankya

Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 9-29-77 Test Ticket No. 23044
 Recorder No. 2604 Capacity 4150 Location 4400 Ft.
 Clock No. 4763 Elevation 1426 Kelly Bushing Well Temperature 132 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2095</u> P.S.I.	<u>9:00 P</u> M	
B First Initial Flow Pressure	<u>58</u> P.S.I.	<u>30</u> Mins.	<u>0 25</u> Mins.
C First Final Flow Pressure	<u>32</u> P.S.I.	<u>60</u> Mins.	<u>72 10</u> Mins.
D Initial Closed-in Pressure	<u>2000.788</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>55</u> P.S.I.	<u>90</u> Mins.	<u>96</u> Mins.
F Second Final Flow Pressure	<u>36</u> P.S.I.		
G Final Closed-in Pressure	<u>1069</u> P.S.I.		
H Final Hydrostatic Mud	<u>2078</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 <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>58</u>	<u>0</u>	<u>32</u>	<u>0</u>	<u>55</u>	<u>0</u>	<u>36</u>
P 2 <u>5</u>	<u>38</u>	<u>3</u>	<u>81</u>	<u>5</u>	<u>36</u>	<u>3</u>	<u>51</u>
P 3 <u>10</u>	<u>32</u>	<u>6</u>	<u>143</u>	<u>10</u>	<u>32</u>	<u>6</u>	<u>90</u>
P 4 <u>15</u>	<u>32</u>	<u>9</u>	<u>184</u>	<u>15</u>	<u>32</u>	<u>9</u>	<u>143</u>
P 5 <u>20</u>	<u>32</u>	<u>12</u>	<u>223</u>	<u>20</u>	<u>↓</u>	<u>12</u>	<u>195</u>
P 6 <u>25</u>	<u>32</u>	<u>15</u>	<u>256</u>	<u>25</u>	<u>↓</u>	<u>15</u>	<u>240</u>
P 7 <u>30</u>		<u>18</u>	<u>286</u>	<u>30</u>	<u>32</u>	<u>18</u>	<u>285</u>
P 8 <u>35</u>		<u>21</u>	<u>323</u>	<u>35</u>	<u>34</u>	<u>21</u>	<u>325</u>
P 9 <u>40</u>		<u>24</u>	<u>355</u>	<u>40</u>	<u>35</u>	<u>24</u>	<u>367</u>
P10 <u>45</u>		<u>27</u>	<u>387</u>	<u>45</u>	<u>36</u>	<u>27</u>	<u>404</u>
P11 <u>50</u>		<u>30</u>	<u>417</u>	<u>50</u>		<u>30</u>	<u>445</u>
P12 <u>55</u>		<u>33</u>	<u>448</u>	<u>55</u>		<u>33</u>	<u>483</u>
P13 <u>60</u>		<u>36</u>	<u>476</u>	<u>60</u>		<u>36</u>	<u>520</u>
P14		<u>39</u>	<u>507</u>	<u>65</u>		<u>39</u>	<u>554</u>
P15		<u>42</u>	<u>536</u>	<u>70</u>		<u>42</u>	<u>589</u>
P16		<u>45</u>	<u>563</u>	<u>75</u>		<u>45</u>	<u>619</u>
P17		<u>48</u>	<u>592</u>	<u>80</u>		<u>48</u>	<u>650</u>
P18		<u>51</u>	<u>619</u>	<u>85</u>		<u>51</u>	<u>684</u>
P19		<u>54</u>	<u>645</u>	<u>90</u>		<u>54</u>	<u>717</u>
P20		<u>57</u>	<u>669</u>			<u>57</u>	<u>747</u>
		<u>60</u>	<u>696</u>			<u>60</u>	<u>778</u>
		<u>63</u>	<u>672</u>				
		<u>66</u>	<u>746</u>				

WESTERN TESTING CO., INC.

Pressure Data

Date _____ Test Ticket No. _____
 Recorder No. _____ Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

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

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0		0		0		0	
P 2 5		5		5		63	805
P 3 10		10		10		66	834
P 4 15		15	772	15		69	857
P 5 20		20	788	20		72	887
P 6 25		25		25		75	911
P 7 30		30		30		78	937
P 8 35		35		35		81	961
P 9 40		40		40		84	981
P10 45		45		45		87	1004
P11 50		50		50		90	1026
P12 55		55		55		93	1049
P13 60		60		60		96	1069
P14		63		65		39	
P15		66		70		42	
P16		69		75		45	
P17		72		80		48	
P18		75		85		51	
P19		78		90		54	
P20		81				57	
		84				60	