



P. O. BOX 793
GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

28476

Formation *Ind. core* Elevation *1301* Eff. Pay *K Bushing* Ft.

District *Pratt* Date *1-19-77* Customer Order No.

COMPANY NAME *Texas Oil & Gas Corporation*

ADDRESS *see att. sheet*

LEASE AND WELL NO. *#1 Cragun Cragun #1* COUNTY *Kingman* STATE *Kansas* Sec *22* Twp. *30S* Rge. *6W*

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. *#1* O.K. *X* Misrun Interval Tested From *1925'* to *1968'* Total Depth *1968'*

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 *1920* Ft. Size *6 3/4* Bottom Packer Depth *1925* Ft. Size *6 3/4*

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

Tool Size *5 1/2 00* Tool Joint Size *4 1/2 HF* Anchor Length *43* Ft. Size *5 1/2 00* Surface Choke Size *3/4* In. Bottom Choke Size *3/4* In.

RECORDERS Depth *1933* Ft. Clock No. *4763* Depth *1937* Ft. Clock No. *6866*

Top Make *Kuster* Cap. *4150* No. *2604* Inside Bottom Make *Kuster* Cap. *4000* No. *3660* Inside

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

Depth - Ft. Rec. No. - Clock No. - Outside

Time Set Packer *4:15* PM

Tool Open I.F.P. From *4:20 P.M.* to *4:50 P.M.* Hr. *30* Min. From (B) *159* P.S.I. To (C) *470* P.S.I.

Tool Closed I.C.I.P. From *4:50 P.M.* to *5:50 P.M.* 1 Hr. Min. (D) *899* P.S.I.

Tool Open F.F.P. From *5:50 P.M.* to *5:10 P.M.* Hr. *20* Min. From (E) *373* P.S.I. To (F) *373* P.S.I.

Tool Closed F.C.I.P. From *5:10 P.M.* to *6:10 P.M.* 1 Hr. Min. (G) *888* P.S.I.

Initial Hydrostatic Pressure (A) *1004* P.S.I. Final Hydrostatic Pressure (H) *1004* P.S.I. Maximum Temp. *114*

BLOW *Strong blow throughout gas to surface in 5 minutes see attached sheet for gas measurements*

Did Well Flow - Yes *X* No Recovery Total Ft. *32 ft. muddy water*

Reversed Out - Yes *X* No Mud Type *Premix* Viscosity *35* Weight *9.7* Water Loss *80+* cc. Chlorides *57000 ppm*

EXTRA EQUIPMENT: Type Circ. Sub. *pin* Safety Joint *yes* Jars: Size *3 1/2 FH* Make *WTC* Ser. No. *402*

Dual Packers *yes* Did Packers Hold? *yes* Did Tool Plug? *no* Where? *---*

DRILLING CONTRACTOR *Rains & Williamson* Length Drill Pipe *870* ft. I.D. Drill Pipe *3.9* In. Tool Joint Size *4 1/2 FH*

Length Weight Pipe *793* ft. I.D. Weight Pipe *3* In. Tool Joint Size *4 1/2 FH* Length Drill Collars *232* ft. I.D. Drill Collars *2 1/2* In.

Tool Joint Size *4 1/2 H-90* Length D.S.T. Tool *73* ft.

Remarks

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 *Gary Wardeman* Western Representative *Honnie J. Clune*

Signature of Customer or his Authorized Representative *Gary Wardeman* Operator's Time *5:40* Hrs.

Invoice Section

Open Hole Test \$ *380.00*

Straddle Test \$

Jars \$ *175.00*

Selective Zone \$

Safety Joint \$ *30.00*

Misrun \$

Evaluation \$

Packer \$

Circ. Sub. \$

Total \$ *585.00*

WESTERN TESTING CO., INC.

Pressure Data

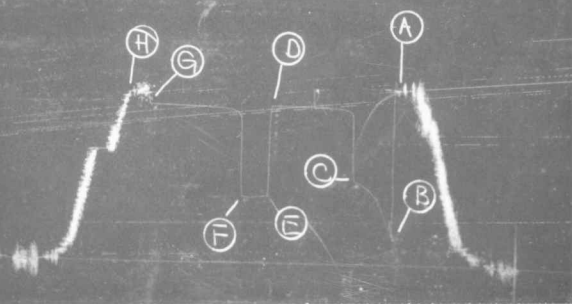
Date 1-19-77 Test Ticket No. 22476
 Recorder No. 2604 Capacity 4150 Location 1933 Ft.
 Clock No. 4763 Elevation 1381 Kelly Rushing Well Temperature 114 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1019</u> P.S.I.		<u>4:15P</u> M	
B First Initial Flow Pressure	<u>162</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>472</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
D Initial Closed-in Pressure	<u>892</u> P.S.I.	Second Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
E Second Initial Flow Pressure	<u>382</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>072</u> Mins.
F Second Final Flow Pressure	<u>378</u> P.S.I.			
G Final Closed-in Pressure	<u>888</u> P.S.I.			
H Final Hydrostatic Mud	<u>979</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>4</u> Inc.		Breakdown: <u>24</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>162</u>	<u>0</u>	<u>472</u>	<u>0</u>	<u>382</u>	<u>0</u>	<u>378</u>
P 2 <u>5</u>	<u>245</u>	<u>3</u>	<u>736</u>	<u>5</u>	<u>376</u>	<u>3</u>	<u>832</u>
P 3 <u>10</u>	<u>348</u>	<u>6</u>	<u>870</u>	<u>10</u>	<u>374</u>	<u>6</u>	<u>857</u>
P 4 <u>15</u>	<u>402</u>	<u>9</u>	<u>878</u>	<u>15</u>	<u>374</u>	<u>9</u>	<u>866</u>
P 5 <u>20</u>	<u>438</u>	<u>12</u>	<u>882</u>	<u>20</u>	<u>378</u>	<u>12</u>	<u>872</u>
P 6 <u>25</u>	<u>461</u>	<u>15</u>	<u>885</u>	<u>25</u>		<u>15</u>	<u>874</u>
P 7 <u>30</u>	<u>472</u>	<u>18</u>	<u>887</u>	<u>30</u>		<u>18</u>	<u>878</u>
P 8 <u>35</u>		<u>21</u>	<u>887</u>	<u>35</u>		<u>21</u>	<u>878</u>
P 9 <u>40</u>		<u>24</u>	<u>888</u>	<u>40</u>		<u>24</u>	<u>878</u> 879
P10 <u>45</u>		<u>27</u>	<u>888</u>	<u>45</u>		<u>27</u>	<u>880</u>
P11 <u>50</u>		<u>30</u>	<u>889</u>	<u>50</u>		<u>30</u>	<u>880</u>
P12 <u>55</u>		<u>33</u>	<u>889</u>	<u>55</u>		<u>33</u>	<u>881</u>
P13 <u>60</u>		<u>36</u>	<u>890</u>	<u>60</u>		<u>36</u>	<u>881</u>
P14		<u>39</u>	<u>890</u>	<u>65</u>		<u>39</u>	<u>882</u>
P15		<u>42</u>	<u>891</u>	<u>70</u>		<u>42</u>	<u>882</u>
P16		<u>45</u>	<u>891</u>	<u>75</u>		<u>45</u>	<u>883</u>
P17		<u>48</u>	<u>892</u>	<u>80</u>		<u>48</u>	<u>883</u>
P18		<u>51</u>	<u>892</u>	<u>85</u>		<u>51</u>	<u>884</u>
P19		<u>54</u>	<u>892</u>	<u>90</u>		<u>54</u>	<u>884</u>
P20		<u>57</u>	<u>892</u>			<u>57</u>	<u>885</u>
		<u>60</u>	<u>892</u>			<u>60</u>	<u>885</u>
		<u>63</u>	<u>892</u>				

Tk+ # 22476
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Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Texas Oil and Gas Corporation Lease & Well No. Cragun # 1
Elevation 1381 Kelly Bushing Formation Indian Cave Effective Pay - Ft. Ticket No. 22476
Date 1-19-77 Sec. 22 Twp. 30S Range 6W County Kingman State Kansas
Test Approved by Gary Wardeman Western Representative Lonnie J. Cline
Formation Test No. # 1 O.K. ☒ Misrun ☐ Interval Tested From 1925' to 1968' Total Depth 1968'
Size Main Hole 7⁷/₈ Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 1920 Ft. Size 6³/₄ Bottom Packer Depth 1925 Ft. Size 6³/₄
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size 5¹/₂OD Tool Joint Size 4¹/₂HF Anchor Length 43 Ft. Size 5¹/₂OD Surface Choke Size 3³/₄ In. Bottom Choke Size 3³/₄ In.
RECORDERS Depth 1933 Ft. Clock No. 4763 Depth 1937 Ft. Clock No. 6866
Top Make Kuster Cap. 4150 No. 2604 ☐ 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 4:15P M
Tool Open I.F.P. From 4:20P M. to 4:50P M. ☐ Hr. 30 Min. From (B) 162 P.S.I. To (C) 472 P.S.I.
Tool Closed I.C.I.P. From 4:50P M. to 5:50P M. ☐ Hr. - Min (D) 892 P.S.I.
Tool Open F.F.P. From 5:50P M. to 5:10P M. ☐ Hr. 20 Min. From (E) 382 P.S.I. To (F) 378 P.S.I.
Tool Closed F.C.I.P. From 5:10P M. to 6:10P M. ☐ Hr. - Min. (G) 888 P.S.I.
Initial Hydrostatic Pressure (A) 1019 P.S.I. Final Hydrostatic Pressure (H) 979 P.S.I. Maximum Temp. 114

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 Ft. 32' Muddy water -

Reversed Out ☒ Yes ☐ No Mud Type Premix Viscosity 35 Weight 9.7 Water Loss 80 + cc. Chlorides 57,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub Pin Safety Joint Yes Jars: Size 3¹/₂ FH 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? 870 Ft. I.D. Drill Pipe 3.9 In. Tool Joint Size 4¹/₂ FH In.

Length Weight Pipe 793 Ft. I.D. Weight Pipe 3 In. Tool Joint Size 4¹/₂ FH In. Length Drill Collars 232 Ft. I.D. Drill Collars 2¹/₂ In.

Tool Joint Size 4¹/₂ H-90 In. Length D.S.T. Tool 73 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 1-19-77 Test Ticket No. 22476

Recorder No. 2604 Capacity 4150 Location 1933 Ft.

Clock No. 4763 Elevation 1381 Kelly Bushing Well Temperature 114 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1019 P.S.I.	4:15P.	M
B First Initial Flow Pressure	162 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	472 P.S.I.	60 Mins.	63 Mins.
D Initial Closed-in Pressure	892 P.S.I.	20 Mins.	20 Mins.
E Second Initial Flow Pressure	382 P.S.I.	60 Mins.	72 Mins.
F Second Final Flow Pressure	378 P.S.I.		
G Final Closed-in Pressure	888 P.S.I.		
H Final Hydrostatic Mud	979 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>4</u> Inc.		Breakdown: <u>24</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>162</u>	<u>0</u>	<u>472</u>	<u>0</u>	<u>382</u>	<u>0</u>	<u>378</u>
P 2 <u>5</u>	<u>245</u>	<u>3</u>	<u>736</u>	<u>5</u>	<u>376</u>	<u>3</u>	<u>832</u>
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P 6 <u>25</u>	<u>461</u>	<u>15</u>	<u>885</u>			<u>15</u>	<u>874</u>
P 7 <u>30</u>	<u>472</u>	<u>18</u>	<u>887</u>			<u>18</u>	<u>878</u>
P 8		<u>21</u>	<u>887</u>			<u>21</u>	<u>878</u>
P 9		<u>24</u>	<u>888</u>			<u>24</u>	<u>879</u>
P10		<u>27</u>	<u>888</u>			<u>27</u>	<u>880</u>
P11		<u>30</u>	<u>889</u>			<u>30</u>	<u>880</u>
P12		<u>33</u>	<u>889</u>			<u>33</u>	<u>881</u>
P13		<u>36</u>	<u>890</u>			<u>36</u>	<u>881</u>
P14		<u>39</u>	<u>890</u>			<u>39</u>	<u>882</u>
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P17		<u>48</u>	<u>892</u>			<u>48</u>	<u>883</u>
P18		<u>51</u>	<u>892</u>			<u>51</u>	<u>884</u>
P19		<u>54</u>	<u>892</u>			<u>54</u>	<u>884</u>
P20		<u>57</u>	<u>892</u>			<u>57</u>	<u>885</u>
WTC - 4		<u>60</u>	<u>892</u>			<u>60</u>	<u>885</u>
		<u>63</u>	<u>892</u>			<u>63</u>	<u>886</u>
						<u>66</u>	<u>887</u>
						<u>69</u>	<u>887</u>
						<u>72</u>	<u>887</u>

