

Company W. L. Kirkman, Inc. Lease & Well No. Box Ranch "A" #2
 Elevation 1783 Derrick Floor Formation Marrow Sand Effective Pay - Ft. Ticket No. 13017
 Date 8/29/81 Sec. 15 Twp. 35S Range 20W County Comanche State Kansas
 Test Approved by Allen G. Siemens Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 5488 ft. to 5558 ft. Total Depth 5558 ft.
 Packer Depth 5483 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 5488 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5492 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 5495 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Explor Drilling Drill Collar Length 550 I. D. 2 1/4 in.
 Mud Type Monpac Viscosity 46 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 11.6 cc. Drill Pipe Length 4949 I. D. 3.8 in.
 Chlorides 14,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make No Serial Number - Anchor Length 70 ft. Size 5 1/2 OD + 6" ID
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

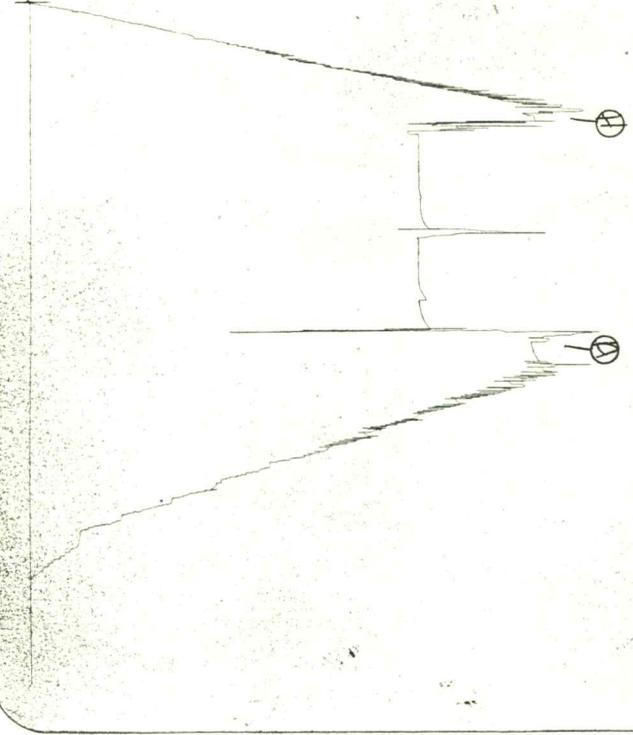
Blow: Good blow decreasing to very weak blow in 30 minutes initial flow period. Few bubbles on final flow period. Flushed tool - very weak blow a few minutes & died.

Recovered 140 ft. of mud - few gas bubbles.
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: MISRUN - TOOL PLUGGED.

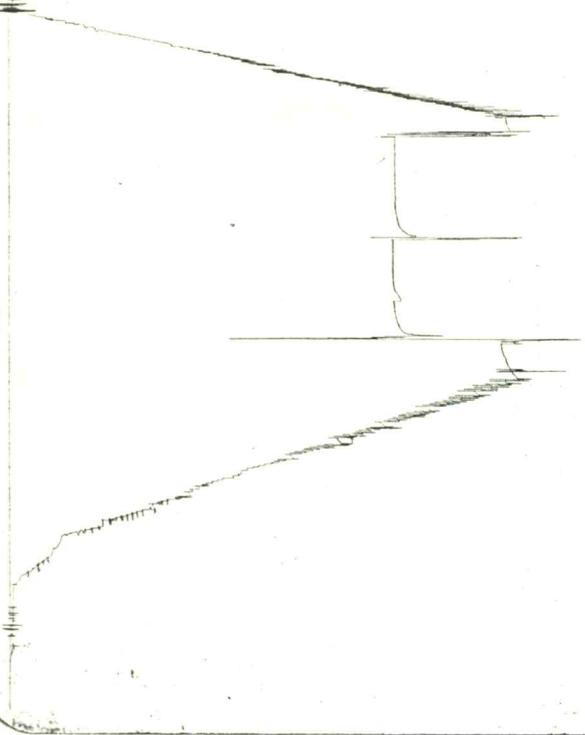
Time Set Packer(s) 6:10 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 8:40 ~~P.M.~~ ^{A.M.} Maximum Temperature 132
 Initial Hydrostatic Pressure (A) 2681 P.S.I.
 Initial Flow Period Minutes - (B) - P.S.I. to (C) - P.S.I.
 Initial Closed In Period Minutes - (D) - P.S.I.
 Final Flow Period Minutes - (E) - P.S.I. to (F) - P.S.I.
 Final Closed In Period Minutes - (G) - P.S.I.
 Final Hydrostatic Pressure (H) 2681 P.S.I.

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Company W. L. Kirkman, Inc. Lease & Well No. Box Ranch "A" #2
 Elevation 1783 Derrick Floor Formation Marrow Sand Effective Pay - Ft. Ticket No. 13018
 Date 8/30/81 Sec. 15 Twp. 35S Range 20W County Comanche State Kansas
 Test Approved by Allen G. Siemens Western Representative Rod Tritt

Formation Test No. 2 Interval Tested from 5491 ft. to 5558 ft. Total Depth 5558 ft.
 Packer Depth 5486 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 5491 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 5493 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 5496 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Explor Drilling Drill Collar Length 558 I. D. 2 1/4 in.
 Mud Type Monpac Viscosity 62 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 11.6 cc. Drill Pipe Length 4953 I. D. 3.8 in.
 Chlorides 14,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make No Serial Number - Anchor Length 67 ft. Size 6" = 5 1/2 OD in.
 Did Well Flow? No Reversed Out Yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout test. No gas to surface.

Recovered 4070 ft. of muddy water Chlorides 76,000 PPM
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 12:35 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 3:05 ~~P.M.~~ ^{A.M.} Maximum Temperature 138
 Initial Hydrostatic Pressure (A) 2817 P.S.I.
 Initial Flow Period Minutes 25 (B) 641* P.S.I. to (C) 1494* P.S.I.
 Initial Closed In Period Minutes 48 (D) 2013 P.S.I.
 Final Flow Period Minutes 30 (E) 1546 P.S.I. to (F) 1784 P.S.I.
 Final Closed In Period Minutes 48 (G) 2017 P.S.I.
 Final Hydrostatic Pressure (H) 2764 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 8/30/81 Test Ticket No. 13018
 Recorder No. 2606 Capacity 4150 Location 5493 Ft.
 Clock No. - Elevation 1783 Derrick Floor Well Temperature 138 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2817</u> P.S.I.	Open Tool	<u>12:35A</u> M	
B First Initial Flow Pressure	<u>641*</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>1494*</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>2013</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>1546</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
F Second Final Flow Pressure	<u>1784</u> P.S.I.	*Pressures questionable due to plugging action.		
G Final Closed-in Pressure	<u>2017</u> P.S.I.			
H Final Hydrostatic Mud	<u>2764</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>16</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>16</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>641*</u>	<u>0</u>	<u>1494*</u>	<u>0</u>	<u>1546</u>	<u>0</u>	<u>1784</u>
P 2 <u>5</u>	<u>1083*</u>	<u>3</u>	<u>1954</u>	<u>5</u>	<u>1641</u>	<u>3</u>	<u>1968</u>
P 3 <u>10</u>	<u>1321*</u>	<u>6</u>	<u>1970</u>	<u>10</u>	<u>1670</u>	<u>6</u>	<u>1985</u>
P 4 <u>15</u>	<u>1350*</u>	<u>9</u>	<u>1983</u>	<u>15</u>	<u>1702</u>	<u>9</u>	<u>1994</u>
P 5 <u>20</u>	<u>1431*</u>	<u>12</u>	<u>1989</u>	<u>20</u>	<u>1735</u>	<u>12</u>	<u>2002</u>
P 6 <u>25</u>	<u>1494*</u>	<u>15</u>	<u>1995</u>	<u>25</u>	<u>1769</u>	<u>15</u>	<u>2005</u>
P 7 _____		<u>18</u>	<u>1999</u>	<u>30</u>	<u>1784</u>	<u>18</u>	<u>2008</u>
P 8 _____		<u>21</u>	<u>2002</u>			<u>21</u>	<u>2010</u>
P 9 _____		<u>24</u>	<u>2004</u>			<u>24</u>	<u>2013</u>
P10 _____		<u>27</u>	<u>2006</u>			<u>27</u>	<u>2014</u>
P11 _____		<u>30</u>	<u>2008</u>			<u>30</u>	<u>2016</u>
P12 _____		<u>33</u>	<u>2010</u>			<u>33</u>	<u>2016</u>
P13 _____		<u>36</u>	<u>2011</u>			<u>36</u>	<u>2016</u>
P14 _____		<u>39</u>	<u>2012</u>			<u>39</u>	<u>2016</u>
P15 _____		<u>42</u>	<u>2012</u>			<u>42</u>	<u>2016</u>
P16 _____		<u>45</u>	<u>2013</u>			<u>45</u>	<u>2017</u>
P17 _____		<u>48</u>	<u>2013</u>			<u>48</u>	<u>2017</u>
P18 _____							
P19 _____							
P20 _____							

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