

Company Crowe Drilling Company, Inc. Lease & Well No. Steele #1
 Elevation 1397 Kelly Bushing Formation Viola Effective Pay --- Ft. Ticket No. 3293
 Date 9/30/79 Sec. 9 Twp. 27S Range 6E County Butler State Kansas
 Test Approved by Paul D. Koontz Western Representative Norman Allen
 Formation Test No. 1 Interval Tested from 3130 ft. to 3140 ft. Total Depth 3140 ft.
 Packer Depth 3130 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3125 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3133 ft. Recorder Number 1564 Cap. 3150
 Bottom Recorder Depth (Outside) 3136 ft. Recorder Number 10980 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor White & Ellis Drilling Co. #4 Drill Collar Length 150 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 40 Weight Pipe Length - I. D. - in.
 Weight 9.8 Water Loss 13.6 cc. Drill Pipe Length 2960 I. D. 3.8 in.
 Chlorides 1,200 P.P.M. Test Tool Length 30 ft. Tool Size 4 1/2 OD in.
 Jars: Make -- Serial Number -- Anchor Length 10 ft. Size 4 1/2 OD in.
 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 3 1/2 IF in.

Blow: Weak throughout test.

Recovered 10 ft. of free oil
 Recovered 70 ft. of muddy salt water
 Recovered 120 ft. of salt water (30,000 chlorides ppm
 Recovered - ft. of (.54 Resistivity @ 72°F)
 Recovered - ft. of -
 Remarks: -

Time Set Packer(s) 3:30 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 6:30 ~~P.M.~~ ^{A.M.} Maximum Temperature 118
 Initial Hydrostatic Pressure 1601 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 16 P.S.I. to (C) 48 P.S.I.
 Initial Closed In Period 30 Minutes (D) 453 P.S.I.
 Final Flow Period 90 Minutes (E) 73 P.S.I. to (F) 115 P.S.I.
 Final Closed In Period 36 Minutes (G) 455 P.S.I.
 Final Hydrostatic Pressure 1557 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

3293

Date 9/30/79 Recorder No. 1564 Capacity 3150 Test Ticket No. 3133 Location 118 Ft.
Clock No. -- Elevation 1397 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1601</u> P.S.I.	Open Tool	<u>3:30A</u> M	
B First Initial Flow Pressure	<u>16</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>48</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>453</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>73</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>36</u> Mins.
F Second Final Flow Pressure	<u>115</u> P.S.I.			
G Final Closed-in Pressure	<u>455</u> P.S.I.			
H Final Hydrostatic Mud	<u>1557</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>10</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>12</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>16</u>	<u>0</u>	<u>48</u>	<u>0</u>	<u>73</u>	<u>0</u>	<u>115</u>
P 2 <u>5</u>	<u>23</u>	<u>3</u>	<u>413</u>	<u>5</u>	<u>70</u>	<u>3</u>	<u>371</u>
P 3 <u>10</u>	<u>26</u>	<u>6</u>	<u>436</u>	<u>10</u>	<u>73</u>	<u>6</u>	<u>431</u>
P 4 <u>15</u>	<u>31</u>	<u>9</u>	<u>445</u>	<u>15</u>	<u>76</u>	<u>9</u>	<u>441</u>
P 5 <u>20</u>	<u>37</u>	<u>12</u>	<u>449</u>	<u>20</u>	<u>82</u>	<u>12</u>	<u>445</u>
P 6 <u>25</u>	<u>42</u>	<u>15</u>	<u>452</u>	<u>25</u>	<u>87</u>	<u>15</u>	<u>449</u>
P 7 <u>30</u>	<u>48</u>	<u>18</u>	<u>453</u>	<u>30</u>	<u>93</u>	<u>18</u>	<u>450</u>
P 8		<u>21</u>	<u>453</u>	<u>35</u>	<u>94</u>	<u>21</u>	<u>452</u>
P 9		<u>24</u>	<u>453</u>	<u>40</u>	<u>95</u>	<u>24</u>	<u>453</u>
P10		<u>27</u>	<u>453</u>	<u>45</u>	<u>95</u>	<u>27</u>	<u>454</u>
P11		<u>30</u>	<u>453</u>	<u>50</u>	<u>96</u>	<u>30</u>	<u>455</u>
P12				<u>55</u>	<u>97</u>	<u>33</u>	<u>455</u>
P13				<u>60</u>	<u>98</u>	<u>36</u>	<u>455</u>
P14				<u>65</u>	<u>99</u>		
P15				<u>70</u>	<u>101</u>		
P16				<u>75</u>	<u>103</u>		
P17				<u>80</u>	<u>107</u>		
P18				<u>85</u>	<u>112</u>		
P19				<u>90</u>	<u>115</u>		
P20							

TK+ # 3293

I.

H

A

G

D

F

E

C

B

1564