

Company Sanders Oil Company Lease & Well No. Rosenhagen #1
 Elevation 1447 Kelly Bushing Formation Simpson Effective Pay --- Ft. Ticket No. 2991
 Date 12/5/79 Sec. 26 Twp. 27S Range 4W County Sedgwick State Kansas
 Test Approved by W. Bryce Bidleman Western Representative W. K. Hager
 Formation Test No. 1 Interval Tested from 4234 ft. to 4250 ft. Total Depth 4250 ft.
 Packer Depth 4234 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4250 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4239 ft. Recorder Number 1559 Cap. 4200
 Bottom Recorder Depth (Outside) 4242 ft. Recorder Number 1558 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number WTC Cap. -
 Drilling Contractor Brandt Drilling Co. #2 Drill Collar Length 121 I. D. 2 1/4 in.
 Mud Type premix Viscosity 38 Weight Pipe Length - I. D. - in.
 Weight 9.3 Water Loss 18.6 cc. Drill Pipe Length 4220 I. D. 3.8 in.
 Chlorides 13,000 P.P.M. Test Tool Length 59 ft. Tool Size 5 1/2 in.
 Jars: Make -- Serial Number -- Anchor Length 16 ft. Size 5 1/2 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: Weak increasing to strong blow on initial flow period/strong blow on final flow period.

Recovered 1320 ft. of salt water with a trace of oil in top 60 feet.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:40 ~~A.M.~~ P.M. Time Started Off Bottom 1:10 ~~A.M.~~ P.M. Maximum Temperature 126⁰
 Initial Hydrostatic Pressure 2131 P.S.I.
 Initial Flow Period 30 Minutes (B) 67 P.S.I. to (C) 230 P.S.I.
 Initial Closed In Period 60 Minutes (D) 1544 P.S.I.
 Final Flow Period 60 Minutes (E) 320 P.S.I. to (F) 540 P.S.I.
 Final Closed In Period 60 Minutes (G) 1521 P.S.I.
 Final Hydrostatic Pressure 2095 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

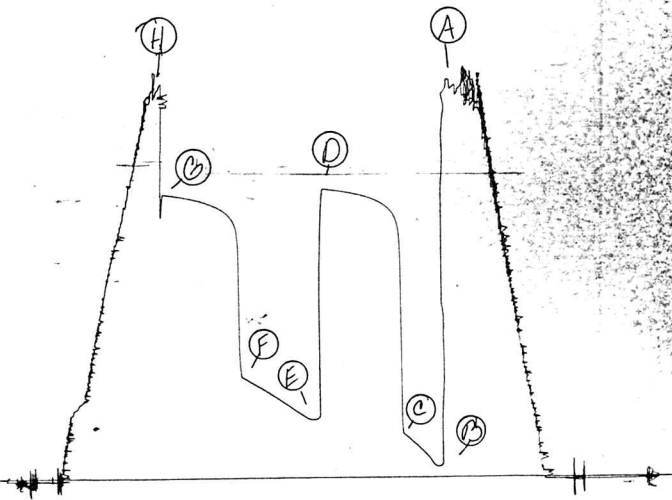
Date 12/5/79 Test Ticket No. 2991
Recorder No. 1559 Capacity 4200 Location 4239 Ft.
Clock No. ---- Elevation 1447 Kelly Bushing Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2131 P.S.I.	Open Tool	9:40A	M
B First Initial Flow Pressure	67 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	230 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1544 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	320 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	540 P.S.I.			
G Final Closed-in Pressure	1521 P.S.I.			
H Final Hydrostatic Mud	2095 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>12</u> Inc.		Breakdown: <u>20</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>67</u>	<u>0</u>	<u>230</u>	<u>0</u>	<u>320</u>	<u>0</u>	<u>540</u>
P 2 <u>5</u>	<u>56</u>	<u>3</u>	<u>971</u>	<u>5</u>	<u>307</u>	<u>3</u>	<u>1261</u>
P 3 <u>10</u>	<u>105</u>	<u>6</u>	<u>1362</u>	<u>10</u>	<u>320</u>	<u>6</u>	<u>1359</u>
P 4 <u>15</u>	<u>140</u>	<u>9</u>	<u>1410</u>	<u>15</u>	<u>341</u>	<u>9</u>	<u>1397</u>
P 5 <u>20</u>	<u>171</u>	<u>12</u>	<u>1437</u>	<u>20</u>	<u>366</u>	<u>12</u>	<u>1420</u>
P 6 <u>25</u>	<u>207</u>	<u>15</u>	<u>1458</u>	<u>25</u>	<u>393</u>	<u>15</u>	<u>1437</u>
P 7 <u>30</u>	<u>230</u>	<u>18</u>	<u>1471</u>	<u>30</u>	<u>420</u>	<u>18</u>	<u>1450</u>
P 8		<u>21</u>	<u>1482</u>	<u>35</u>	<u>441</u>	<u>21</u>	<u>1458</u>
P 9		<u>24</u>	<u>1492</u>	<u>40</u>	<u>462</u>	<u>24</u>	<u>1469</u>
P10		<u>27</u>	<u>1500</u>	<u>45</u>	<u>487</u>	<u>27</u>	<u>1475</u>
P11		<u>30</u>	<u>1506</u>	<u>50</u>	<u>508</u>	<u>30</u>	<u>1481</u>
P12		<u>33</u>	<u>1513</u>	<u>55</u>	<u>529</u>	<u>33</u>	<u>1487</u>
P13		<u>36</u>	<u>1519</u>	<u>60</u>	<u>540</u>	<u>36</u>	<u>1494</u>
P14		<u>39</u>	<u>1523</u>			<u>39</u>	<u>1498</u>
P15		<u>42</u>	<u>1527</u>			<u>42</u>	<u>1504</u>
P16		<u>45</u>	<u>1532</u>			<u>45</u>	<u>1508</u>
P17		<u>48</u>	<u>1535</u>			<u>48</u>	<u>1511</u>
P18		<u>51</u>	<u>1538</u>			<u>51</u>	<u>1514</u>
P19		<u>54</u>	<u>1540</u>			<u>54</u>	<u>1517</u>
P20		<u>57</u>	<u>1542</u>			<u>57</u>	<u>1519</u>
		<u>60</u>	<u>1544</u>			<u>60</u>	<u>1521</u>

TKL# 2991
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TKL # 2994
Below Straddle

