



Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company Graves Drilling Company, Inc. Lease & Well No. Nelson #1
Elevation 1495 Kelly Bushing Formation Simpson Effective Pay - Ft. Ticket No. 8737
Date 12-30-80 Sec. 15 Twp. 18S Range 4W County McPherson State Kansas
Test Approved by George A. McCaleb Western Representative Vernon Wondra
Formation Test No. 1 Interval Tested from 3696 ft. to 3708 ft. Total Depth 3708 ft.
Packer Depth 3691 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 3696 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3698 ft. Recorder Number 6074 Cap. 5100
Bottom Recorder Depth (Outside) 3701 ft. Recorder Number 10979 Cap. 4100
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Big Springs Drilling Co Rig #3 Drill Collar Length - I. D. - in.
Mud Type Impermix Viscosity 45 Weight Pipe Length 284 I. D. 2.7 in.
Weight 10.3 Water Loss 9.6 cc. Drill Pipe Length 3391 I. D. 3.8 in.
Chlorides 5,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 12 ft. Size 5 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 4 1/2 FH in.

Blow: Good blow throughout both flow periods.

Recovered 20 ft. of clean oil
Recovered 60 ft. of oil cut muddy water
Recovered 720 ft. of water Chlorides 23,000 PPM
Recovered - ft. of -
Recovered - ft. of -
Remarks: -

Time Set Packer(s) 4:30 ~~P.M.~~ A.M. Time Started Off Bottom 7:15 ~~P.M.~~ A.M. Maximum Temperature 116
Initial Hydrostatic Pressure (A) 1954 P.S.I.
Initial Flow Period Minutes 15 (B) 43 P.S.I. to (C) 156 P.S.I.
Initial Closed In Period Minutes 45 (D) 921 P.S.I.
Final Flow Period Minutes 60 (E) 184 P.S.I. to (F) 391 P.S.I.
Final Closed In Period Minutes 45 (G) 908 P.S.I.
Final Hydrostatic Pressure (H) 1926 P.S.I.

WESTERN TESTING CO., INC.

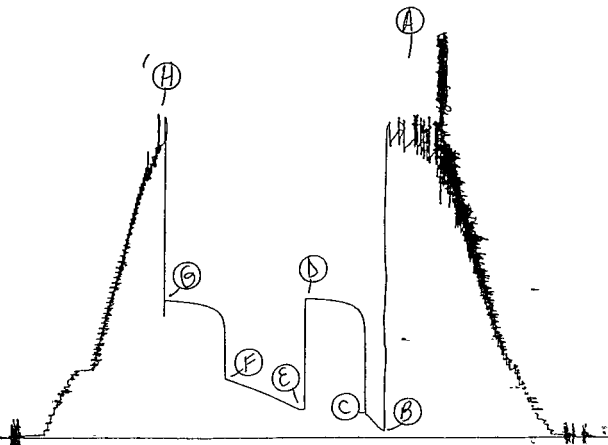
Pressure Data

Date 12-30-80 Test Ticket No. 8737
 Recorder No. 6074 Capacity 5100 Location 3698 Ft.
 Clock No. - Elevation 1495 Kelly Bushing Well Temperature 116 °F
 Point Pressure Time Given Time Computed
 A. Initial Hydrostatic Mud 1954 P.S.I. Open Tool 4:30A M
 B First Initial Flow Pressure 43 P.S.I. First Flow Pressure 15 Mins. 15 Mins.
 C First Final Flow Pressure 156 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
 D Initial Closed-in Pressure 921 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 184 P.S.I. Final Closed-in Pressure 45 Mins. 45 Mins.
 F Second Final Flow Pressure 391 P.S.I.
 G Final Closed-in Pressure 908 P.S.I.
 H Final Hydrostatic Mud 1926 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a 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>43</u>	<u>0</u>	<u>156</u>	<u>9</u>	<u>184</u>	<u>0</u>	<u>391</u>
P 2 <u>5</u>	<u>82</u>	<u>3</u>	<u>813</u>	<u>5</u>	<u>194</u>	<u>3</u>	<u>806</u>
P 3 <u>10</u>	<u>128</u>	<u>6</u>	<u>849</u>	<u>10</u>	<u>215</u>	<u>6</u>	<u>836</u>
P 4 <u>15</u>	<u>156</u>	<u>9</u>	<u>870</u>	<u>15</u>	<u>235</u>	<u>9</u>	<u>852</u>
P 5		<u>12</u>	<u>882</u>	<u>20</u>	<u>256</u>	<u>12</u>	<u>864</u>
P 6		<u>15</u>	<u>890</u>	<u>25</u>	<u>279</u>	<u>15</u>	<u>874</u>
P 7		<u>18</u>	<u>900</u>	<u>30</u>	<u>299</u>	<u>18</u>	<u>880</u>
P 8		<u>21</u>	<u>903</u>	<u>35</u>	<u>315</u>	<u>21</u>	<u>887</u>
P 9		<u>24</u>	<u>908</u>	<u>40</u>	<u>332</u>	<u>24</u>	<u>890</u>
P10		<u>27</u>	<u>910</u>	<u>45</u>	<u>348</u>	<u>27</u>	<u>895</u>
P11		<u>30</u>	<u>915</u>	<u>50</u>	<u>366</u>	<u>30</u>	<u>898</u>
P12		<u>33</u>	<u>917</u>	<u>55</u>	<u>381</u>	<u>33</u>	<u>900</u>
P13		<u>36</u>	<u>918</u>	<u>60</u>	<u>391</u>	<u>36</u>	<u>902</u>
P14		<u>39</u>	<u>919</u>			<u>39</u>	<u>904</u>
P15		<u>42</u>	<u>920</u>			<u>42</u>	<u>906</u>
P16		<u>45</u>	<u>921</u>			<u>45</u>	<u>908</u>
P17							
P18							
P19							
P20							

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