



P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Company Pickrell Drilling Company Lease & Well No. Lyman "A" #1
Elevation 1490 Kelly Bush. Formation Douglas Sand Effective Pay - Ft. Ticket No. 902
Date 8-16-78 Sec. 28 Twp. 32S Range 11W County Barber State Kansas
Test Approved by M. Russell Western Representative Vernon Wondra
Formation Test No. 1 Interval Tested from 3620 ft. to 3690 ft. Total Depth 3690 ft.
Packer Depth 3615 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3620 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3645 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 3648 ft. Recorder Number 1565 Cap. 3150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Pickrell Drlg. Co. (#1) Drill Collar Length 459 I. D. 2 1/4 in.
Mud Type Premix Viscosity 28-48 Weight Pipe Length - I. D. - in.
Weight 9.0 Water Loss 8.0 cc. Drill Pipe Length 3039 I. D. 3.8 in.
Chlorides 22,000 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.
Jars: Make - Serial Number - Anchor Length 70 ft. Size 5 1/2 OD in. + 30' D.C.
Did Well Flow? Yes Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in.

Blow: Strong blow decreased to a weak blow by end of final flow period. Gas to surface in 3 minutes. See attached sheet for gas measurments.

Recovered 3175 ft. of clean oil - specific gravity 28 at 60°F.
Recovered 123 ft. of oily water (17% oil).
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks: Loosing fuild at approx. 20' per minute throughout test.

Time Set Packer(s) 9:10 ~~9:10~~ P.M. Time Started Off Bottom 11:40 ~~11:40~~ P.M. Maximum Temperature 113
Initial Hydrostatic Pressure (A) 1789 P.S.I.
Initial Flow Period Minutes 30 (B) 278 P.S.I. to (C) 560 P.S.I.
Initial Closed In Period Minutes 30 (D) 1329 P.S.I.
Final Flow Period Minutes 30 (E) 655 P.S.I. to (F) 951 P.S.I.
Final Closed In Period Minutes 60 (G) 1328 P.S.I.
Final Hydrostatic Pressure (H) 1770 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

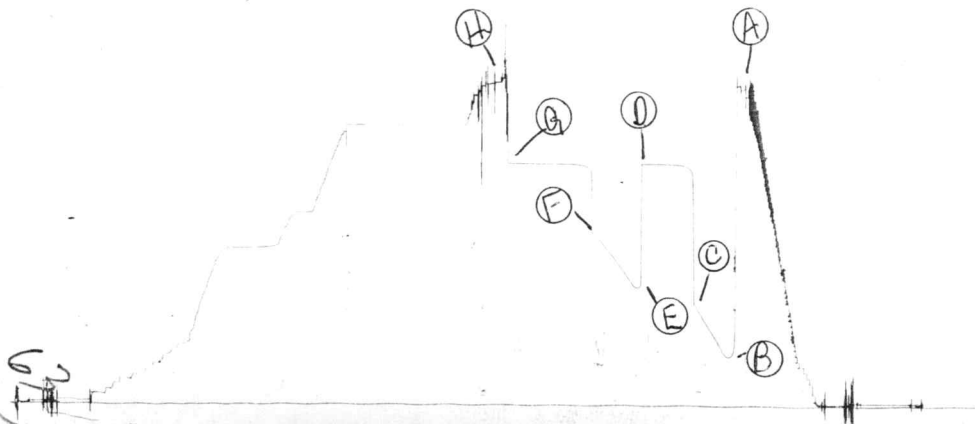
Date 8-16-78 Test Ticket No. 902
 Recorder No. 1563 Capacity 4200 Location 3645 Ft.
 Clock No. - Elevation 1490 Kelly Bushing Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1789	P.S.I.	9:10P.	M
B First Initial Flow Pressure	278	P.S.I.	30	30
C First Final Flow Pressure	560	P.S.I.	30	27
D Initial Closed-in Pressure	1329	P.S.I.	30	35
E Second Initial Flow Pressure	655	P.S.I.	60	57
F Second Final Flow Pressure	951	P.S.I.		
G Final Closed-in Pressure	1328	P.S.I.		
H Final Hydrostatic Mud	1770	P.S.I.		

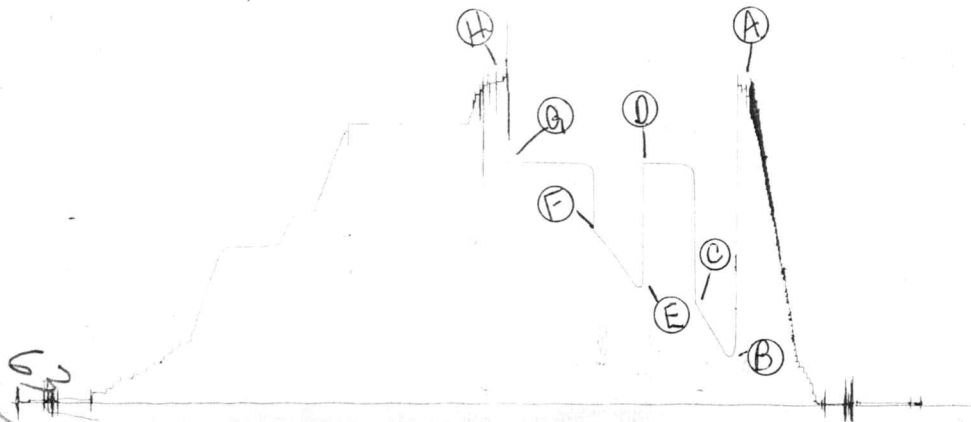
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>7</u> Inc.		Breakdown: <u>19</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>278</u>	<u>0</u>	<u>560</u>	<u>0</u>	<u>655</u>	<u>0</u>	<u>951</u>
P 2 <u>5</u>	<u>282</u>	<u>3</u>	<u>1224</u>	<u>5</u>	<u>655</u>	<u>3</u>	<u>1308</u>
P 3 <u>10</u>	<u>345</u>	<u>6</u>	<u>1316</u>	<u>10</u>	<u>709</u>	<u>6</u>	<u>1316</u>
P 4 <u>15</u>	<u>407</u>	<u>9</u>	<u>1323</u>	<u>15</u>	<u>762</u>	<u>9</u>	<u>1323</u>
P 5 <u>20</u>	<u>466</u>	<u>12</u>	<u>1325</u>	<u>20</u>	<u>815</u>	<u>12</u>	<u>1327</u>
P 6 <u>25</u>	<u>532</u>	<u>15</u>	<u>1329</u>	<u>25</u>	<u>866</u>	<u>15</u>	<u>1328</u>
P 7 <u>30</u>	<u>560</u>	<u>18</u>	<u>1329</u>	<u>30</u>	<u>906</u>	<u>18</u>	<u>1328</u>
P 8		<u>21</u>	<u>1329</u>	<u>35</u>	<u>951</u>	<u>21</u>	<u>1328</u>
P 9		<u>24</u>	<u>1329</u>			<u>24</u>	<u>1328</u>
P10		<u>27</u>	<u>1329</u>			<u>27</u>	<u>1328</u>
P11						<u>30</u>	<u>1328</u>
P12						<u>33</u>	<u>1328</u>
P13						<u>36</u>	<u>1328</u>
P14						<u>39</u>	<u>1328</u>
P15						<u>42</u>	<u>1328</u>
P16						<u>45</u>	<u>1328</u>
P17						<u>48</u>	<u>1328</u>
P18						<u>51</u>	<u>1328</u>
P19						<u>54</u>	<u>1328</u>
P20						<u>57</u>	<u>1328</u>

TK# 902
I.



TK# 902
I.





P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Company Pickrell Drilling Company Lease & Well No. Lyman "A" #1
Elevation -- Formation -- Effective Pay -- Ft. Ticket No. 1038
Date 8/17/78 Sec. 28 Twp. 32S Range 11W County Barber State Kansas
Test Approved by Michael Russell Western Representative Jim Wondra
Formation Test No. 2 Interval Tested from 3703' ft. to 3720' ft. Total Depth 3720' ft.
Packer Depth 3702 ft. Size 6 3/4 in. Packer Depth 3707 ft. Size 6 3/4 in.
Packer Depth -- ft. Size -- in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 3710 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 3713 ft. Recorder Number 3551 Cap. 4000
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --
Drilling Contractor Pickrell Drilling #1 Drill Collar Length 490 I. D. 2 1/4 in.
Mud Type premix Viscosity 38 Weight Pipe Length -- I. D. -- in.
Weight 9.0 Water Loss 24 cc. Drill Pipe Length 3193 I. D. 3.8 in.
Chlorides 22,000 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.
Jars: Make -- Serial Number -- Anchor Length 13 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.

Blow: Weak to strong blow on first flow period. Strong blow throughout second flow period.

Recovered 1480 ft. of salt water (Chlorides checked 77,800 PPM)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Tool slid 15' to bottom on opening.

Time Set Packer(s) 7:25 ~~AM~~ P.M. Time Started Off Bottom 10:55 ~~AM~~ P.M. Maximum Temperature 118
Initial Hydrostatic Pressure 1826 P.S.I.
Initial Flow Period 30 Minutes (B) 152 P.S.I. to (C) 379 P.S.I.
Initial Closed In Period 30 Minutes (D) 1370 P.S.I.
Final Flow Period 90 Minutes (E) 417 P.S.I. to (F) 748 P.S.I.
Final Closed In Period 60 Minutes (G) 1362 P.S.I.
Final Hydrostatic Pressure 1815 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

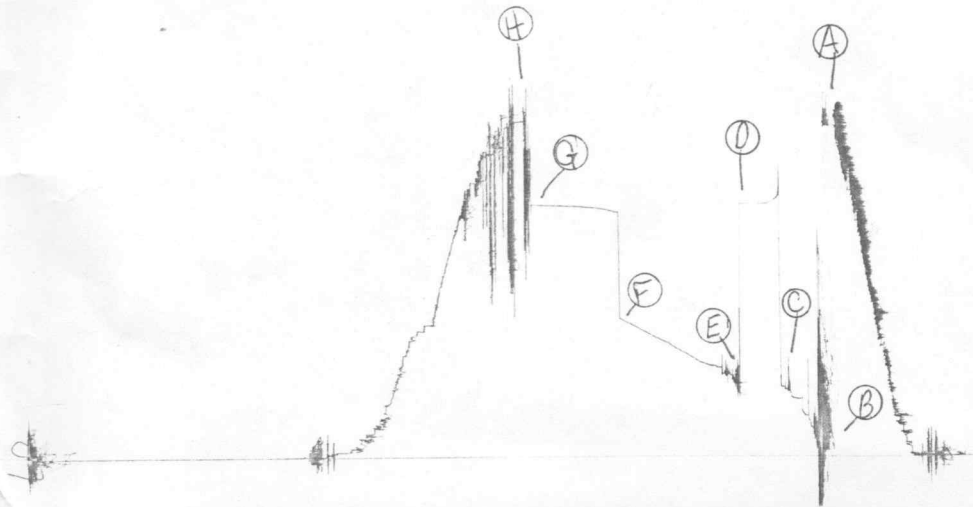
Date 8/17/78 Recorder No. 2607 Capacity 4150 Test Ticket No. 1038
 Location 3710 Ft. 118
 Clock No. -- Elevation -- Well Temperature -- °F

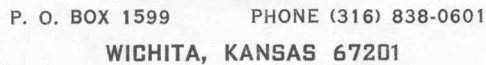
Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	1826 P.S.I.		7:25P M	
B First Initial Flow Pressure	152 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	379 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1370 P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E Second Initial Flow Pressure	417 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	748 P.S.I.			
G Final Closed-in Pressure	1362 P.S.I.			
H Final Hydrostatic Mud	1815 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>18</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>152</u>	<u>0</u>	<u>379</u>	<u>0</u>	<u>417</u>	<u>0</u>	<u>748</u>
P 2 <u>5</u>	<u>152</u>	<u>3</u>	<u>1574</u>	<u>5</u>	<u>417</u>	<u>3</u>	<u>1324</u>
P 3 <u>10</u>	<u>193</u>	<u>6</u>	<u>1391</u>	<u>10</u>	<u>451</u>	<u>6</u>	<u>1332</u>
P 4 <u>15</u>	<u>241</u>	<u>9</u>	<u>1376</u>	<u>15</u>	<u>485</u>	<u>9</u>	<u>1336</u>
P 5 <u>20</u>	<u>313</u>	<u>12</u>	<u>1370</u>	<u>20</u>	<u>494</u>	<u>12</u>	<u>1341</u>
P 6 <u>25</u>	<u>360</u>	<u>15</u>	<u>1370</u>	<u>25</u>	<u>504</u>	<u>15</u>	<u>1345</u>
P 7 <u>30</u>	<u>379</u>	<u>18</u>	<u>1370</u>	<u>30</u>	<u>523</u>	<u>18</u>	<u>1347</u>
P 8		<u>21</u>	<u>1370</u>	<u>35</u>	<u>542</u>	<u>21</u>	<u>1351</u>
P 9		<u>24</u>	<u>1370</u>	<u>40</u>	<u>564</u>	<u>24</u>	<u>1353</u>
P10		<u>27</u>	<u>1370</u>	<u>45</u>	<u>581</u>	<u>27</u>	<u>1355</u>
P11		<u>30</u>	<u>1370</u>	<u>50</u>	<u>604</u>	<u>30</u>	<u>1356</u>
P12				<u>55</u>	<u>625</u>	<u>33</u>	<u>1357</u>
P13				<u>60</u>	<u>644</u>	<u>36</u>	<u>1357</u>
P14				<u>65</u>	<u>660</u>	<u>39</u>	<u>1358</u>
P15				<u>70</u>	<u>679</u>	<u>42</u>	<u>1358</u>
P16				<u>75</u>	<u>670</u>	<u>45</u>	<u>1359</u>
P17				<u>80</u>	<u>718</u>	<u>48</u>	<u>1359</u>
P18				<u>85</u>	<u>739</u>	<u>51</u>	<u>1361</u>
P19				<u>90</u>	<u>748</u>	<u>54</u>	<u>1361</u>
P20						<u>57</u>	<u>1362</u>
						<u>60</u>	<u>1362</u>

TK#1038
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PHONE (316) 838-0601

WICHITA, KANSAS 67201

Lyman "A" #1

Elevation Formation Effective Pay Ft. Ticker No.

Test Approved by Michael Russell Western Representative Jim Wondra

Packer Depth 4620 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Test Tool Size 5½OD in. Tool Joint Size 4½FH in.

Main Hole Size 7 7/8 in.

Recovered _____ ft. of _____

Remarks: _____

Final Hydrostatic Pressure (H) 2335 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8/21/78 Test Ticket No. 517
 Recorder No. 969 Capacity 4150 Location 4650 Ft.
 Clock No. -- Elevation -- Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2380	P.S.I.	11:30	M
B First Initial Flow Pressure	78	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	49	P.S.I.	30	Mins. 30 Mins.
D Initial Closed-in Pressure	49	P.S.I.	10	Mins. 10 Mins.
E Second Initial Flow Pressure	49	P.S.I.	--	Mins. Not taken Mins.
F Second Final Flow Pressure	49	P.S.I.		
G Final Closed-in Pressure	Not taken	P.S.I.		
H Final Hydrostatic Mud	2335	P.S.I.		

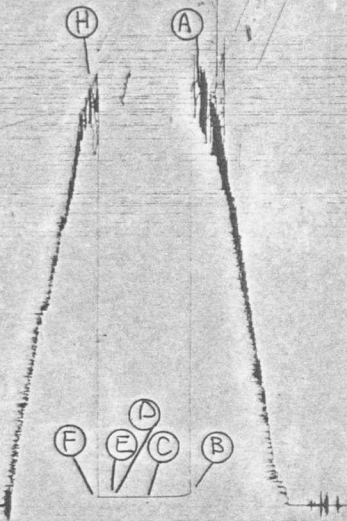
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>2</u> Inc.		Breakdown: <u>2</u> Inc.		Breakdown: <u>Not taken</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> </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>78</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>49</u>		
P 2 <u>5</u>	<u>56</u>	<u>3</u>	<u>49</u>	<u>5</u>	<u>49</u>		
P 3 <u>10</u>	<u>51</u>	<u>6</u>	<u>49</u>	<u>10</u>	<u>49</u>		
P 4 <u>15</u>	<u>49</u>	<u>9</u>	<u>49</u>				
P 5 <u>20</u>	<u>49</u>	<u>12</u>	<u>49</u>				
P 6 <u>25</u>	<u>49</u>	<u>15</u>	<u>49</u>				
P 7 <u>30</u>	<u>49</u>	<u>18</u>	<u>49</u>				
P 8 <u> </u>		<u>21</u>	<u>49</u>				
P 9 <u> </u>		<u>24</u>	<u>49</u>				
P 10 <u> </u>		<u>27</u>	<u>49</u>				
P 11 <u> </u>		<u>30</u>	<u>49</u>				
P 12 <u> </u>							
P 13 <u> </u>							
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