



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No 2409

P. O. BOX 1599 PHONE (316) 838-0601

WICHITA, KANSAS 67201

Elevation 2352 K.B. Formation Morrow Sd. Eff. Pay — Ft.

District Great Bend, Ks Date 4-14-79 Customer Order No. —

COMPANY NAME Pickrell Dalg Co.

ADDRESS Lt Twin Bldg Suite 205, Wichita, Ks 67202

LEASE AND WELL NO. #5-B Giles COUNTY Clark STATE Ks Sec 25 Twp 30s Rge 22w

Mail Invoice To Same As Above Co. Name Address No. Copies Requested 5

Mail Charts To Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 5280 ft. to 5335 ft. Total Depth 5335 ft.

Packer Depth 5275 ft. Size 6 3/4 in. Packer Depth 5280 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) 5289 ft. Recorder Number 3474 Cap. 3000

Bottom Recorder Depth (Outside) 5292 ft. Recorder Number 3659 Cap. 4600

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

Drilling Contractor Pickrell Dalg Rig 1 Drill Collar Length 305 I. D. 2.7 in.

Mud Type Gel Viscosity 55 Weight Pipe Length — I. D. — in.

Weight 9.6 Water Loss 17.6 cc. Drill Pipe Length 4949 I. D. 3.8 in.

Chlorides 17,000 P.P.M. Test Tool Length 28 in. Tool Size 4 1/2 FN in.

Jars: Make WTC Serial Number 410 Anchor Length 55 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 2/4 in.

Main Hole Size 7 3/8 in. Tool Joint Size 4 1/2 x 1 1/4 in.

Blow: Few Bubbles. Died In 7 min On 1st F.P. NO Blow On 2nd Opening.

Recovered 10 ft. of Dalg Mud

Recovered — ft. of —

Remarks: —

RECEIVED APR 17 1979

Time Set Packer(s) 6:18 AM. Time Started Off Bottom 8:00 PM. Maximum Temperature 119

Initial Hydrostatic Pressure (A) 3,750 P.S.I.

Initial Flow Period Minutes 30 (B) 50 P.S.I. to (C) 50 P.S.I.

Initial Closed In Period Minutes 60 (D) 290 P.S.I.

Final Flow Period Minutes 10 (E) 60 P.S.I. to (F) 50 P.S.I.

Final Closed In Period Minutes Out of Hole P.S.I.

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

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature] Signature of Customer or his authorized representative.

Western Representative. [Signature] Thank you

FIELD INVOICE

Open Hole Test \$550.00
Misrun \$
Straddle Test \$
Jars \$250.00
Selective Zone \$
Safety Joint \$35.00
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Extra Charts \$

TOTAL \$835.00

WESTERN TESTING CO., INC.

Pressure Data

Date 4-14-79 Test Ticket No. 2409
 Recorder No. 3474 Capacity 3000 Location 5289 Ft.
 Clock No. _____ Elevation 2352 KB Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2863</u>	P.S.I.	<u>6:18 P.M.</u>	
B. First Initial Flow Pressure	<u>36</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>39</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D. Initial Closed-in Pressure	<u>224</u>	P.S.I.	<u>10</u> Mins.	<u>10</u> Mins.
E. Second Initial Flow Pressure	<u>51</u>	P.S.I.		
F. Second Final Flow Pressure	<u>44</u>	P.S.I.		
G. Final Closed-in Pressure		P.S.I.		
H. Final Hydrostatic Mud	<u>2816</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 2 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: _____ Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>36</u>	0	<u>39</u>	0	<u>51</u>	<u>0</u>	
P 2 5	<u>39</u>	3	<u>39</u>	5	<u>47</u>	<u>3</u>	
P 3 10		6	<u>39</u>	10	<u>44</u>	<u>6</u>	
P 4 15		9	<u>42</u>	15	<u>45</u>	<u>9</u>	
P 5 20		12	<u>48</u>	20		<u>12</u>	
P 6 25		15	<u>53</u>	25		<u>15</u>	
P 7 30	<u>39</u>	18	<u>59</u>	30		<u>18</u>	
P 8 35		21	<u>68</u>	35		<u>21</u>	
P 9 40		24	<u>76</u>	40		<u>24</u>	
P10 45		27	<u>89</u>	45		<u>27</u>	
P11 50		30	<u>106</u>	50		<u>30</u>	
P12 55		33	<u>130</u>	55		<u>33</u>	
P13 60		36	<u>155</u>	60		<u>36</u>	
P14		39	<u>173</u>	65		<u>39</u>	
P15		42	<u>186</u>	70		<u>42</u>	
P16		45	<u>197</u>	75		<u>45</u>	
P17		48	<u>202</u>	80		<u>48</u>	
P18		51	<u>208</u>	85		<u>51</u>	
P19		54	<u>211</u>	90		<u>54</u>	
P20		57	<u>218</u>			<u>57</u>	
		60	<u>224</u>			<u>60</u>	

Company Pickrell Drilling Company Lease & Well No. Giles "B"#5
 Elevation 2352 Kelly Bushing Formation Morrow Sand Effective Pay -- Ft. Ticket No. 2409
 Date 4/14/79 Sec. 25 Twp. 30S Range 22 W County Clark State Kansas
 Test Approved by Mike G. Russell Western Representative Denis Wondra

Formation Test No. 1 Interval Tested from 5280' ft. to 5235' ft. Total Depth 5335' ft.
 Packer Depth 5275' ft. Size 6 3/4 in. Packer Depth 5280' 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) 5289 ft. Recorder Number 3474 Cap. 3000
 Bottom Recorder Depth (Outside) 5292 ft. Recorder Number 3659 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pickrell Drilling Rig #1 Drill Collar Length 305 I. D. 2.7 in.
 Mud Type gel Viscosity 55 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 17.6 cc. Drill Pipe Length 4947 I. D. 3.8 in.
 Chlorides 17,000 P.P.M. Test Tool Length 28' I.B. Tool Size 4 1/2 FH in.
 Jars: Make WTC Serial Number 410 Anchor Length 55' 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 XH in.

Blow: Few bubbles. Died in seven minutes on first flow period. No blow on second opening.

Recovered 10 ft. of drilling mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 6:18 ~~A.M.~~ P.M. Time Started Off Bottom 8:00 ~~A.M.~~ P.M. Maximum Temperature 119
 Initial Hydrostatic Pressure (A) 2863 P.S.I.
 Initial Flow Period Minutes 30 (B) 36 P.S.I. to (C) 39 P.S.I.
 Initial Closed In Period Minutes 60 (D) 224 P.S.I.
 Final Flow Period Minutes 10 (E) 51 P.S.I. to (F) 44 P.S.I.
 Final Closed In Period Minutes == (G) -- P.S.I.
 Final Hydrostatic Pressure (H) 2816 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 4/14/79

Test Ticket No. 2409
5289

Recorder No. 3474

Capacity 3000

Location 119 Ft.

Clock No. --

2352 Kelly Bushing

Well Temperature °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2863</u> P.S.I.	Open Tool	<u>6:18P</u> M	
B First Initial Flow Pressure	<u>36</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>39</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>224</u> P.S.I.	Second Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
E Second Initial Flow Pressure	<u>51</u> P.S.I.	Final Closed-in Pressure	<u>--</u> Mins.	<u>--</u> Mins.
F Second Final Flow Pressure	<u>44</u> P.S.I.			
G Final Closed-in Pressure	<u>--</u> P.S.I.			
H Final Hydrostatic Mud	<u>2816</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

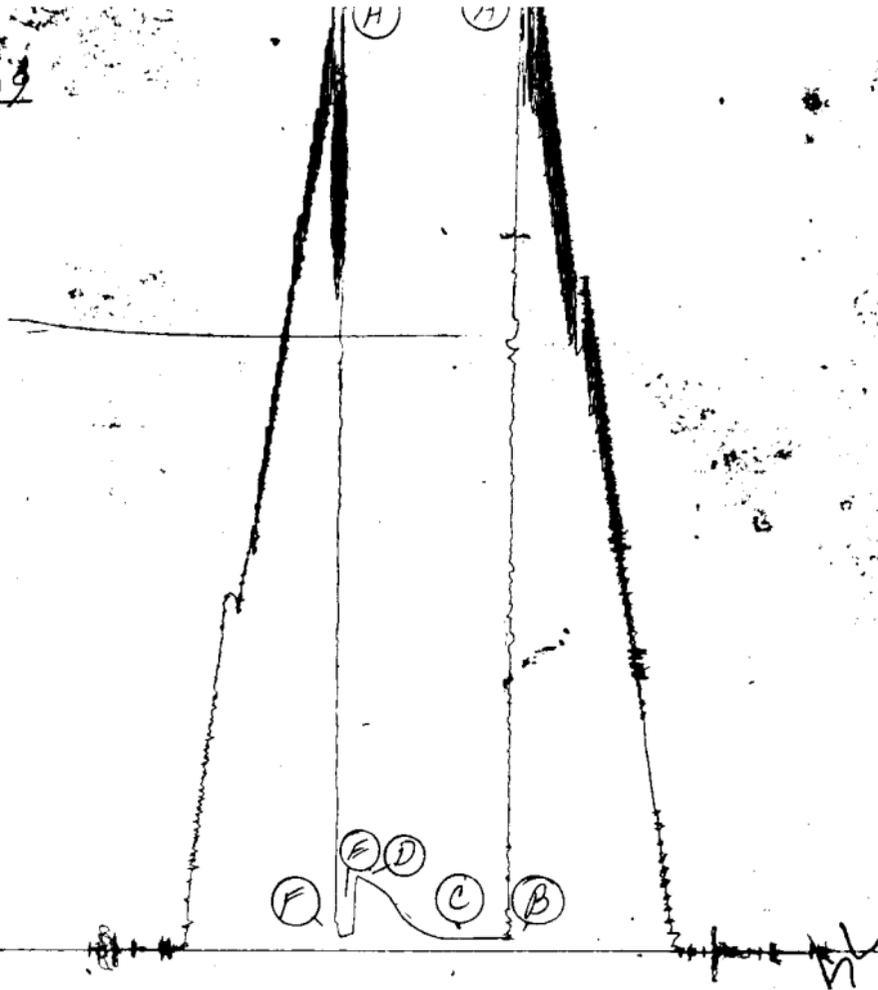
Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 2 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 0 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>36</u>	<u>0</u>	<u>39</u>	<u>0</u>	<u>51</u>		
P 2 <u>5</u>	<u>39</u>	<u>3</u>	<u>39</u>	<u>5</u>	<u>47</u>		
P 3 <u>10</u>	<u>39</u>	<u>6</u>	<u>39</u>	<u>10</u>	<u>44</u>		
P 4 <u>15</u>	<u>39</u>	<u>9</u>	<u>42</u>				
P 5 <u>20</u>	<u>39</u>	<u>12</u>	<u>48</u>				
P 6 <u>25</u>	<u>39</u>	<u>15</u>	<u>53</u>				
P 7 <u>30</u>	<u>39</u>	<u>18</u>	<u>59</u>				
P 8		<u>21</u>	<u>68</u>				
P 9		<u>24</u>	<u>76</u>				
P10		<u>27</u>	<u>89</u>				
P11		<u>30</u>	<u>106</u>				
P12		<u>33</u>	<u>130</u>				
P13		<u>36</u>	<u>155</u>				
P14		<u>39</u>	<u>173</u>				
P15		<u>42</u>	<u>186</u>				
P16		<u>45</u>	<u>197</u>				
P17		<u>48</u>	<u>202</u>				
P18		<u>51</u>	<u>208</u>				
P19		<u>54</u>	<u>211</u>				
P20		<u>57</u>	<u>218</u>				
		<u>60</u>	<u>224</u>				

TKT # 2409
I



On Ticket 2409 - Denis ~~read~~ wrote deflection instead of
PSI reading for Pickell.



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 2410

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

Elevation 2352 K.B Formation Morrow S.D. Eff. Pay Ft.

District Great Bend, KS Date 4-15-79 Customer Order No.

COMPANY NAME Pickrell Drlg. Co.
ADDRESS Litwin Bldg. Suite 205, 110 N. Market. Wichita, KS 67202
LEASE AND WELL NO. #5-B Gales COUNTY Clark STATE Ks Sec. 25 Twp 30S Rge 22W
Mail Invoice To Same As Above Co. Name " Address " No. Copies Requested 5

Mail Charts To Address No. Copies Requested 5

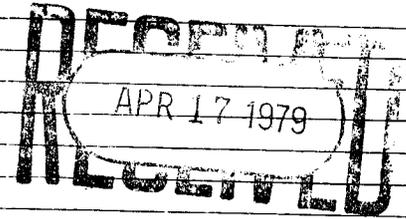
Formation Test No. 2 Interval Tested from 5296 ft. to 5345 ft. Total Depth 5345 ft.
Packer Depth 5291 ft. Size 6 3/4 in. Packer Depth 5296 ft. Size 6 3/4 in.
Packer Depth ft. Size in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft. Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 5304 ft. Recorder Number 3474 Cap. 3000
Bottom Recorder Depth (Outside) 5302 ft. Recorder Number 3659 Cap. 4000
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Pickrell Drlg. Co. Drill Collar Length 305 I. D. 2.7 in.
Mud Type Gel Viscosity 55 Weight Pipe Length I. D. in.
Weight 9.6 Water Loss 12.6 cc. Drill Pipe Length 4953 I. D. 3.8 in.
Chlorides 17,000 P.P.M. Test Tool Length 28 in. Tool Size 4 1/2 FH in.
Jars: Make WTC Serial Number 410 Anchor Length 49 ft. Size 5500 in.
Did Well Flow? NO Reversed Out NO Surface Choke Size 314 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 3/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Steady Weak Blow Throughout 1st F.P.
NO Blow On 2nd Opening.

Recovered 125 ft. of Prly Mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks:



Time Set Packer(s)	<u>9:08</u> A.M.	Time Started Off Bottom	<u>12:10</u> P.M.	Maximum Temperature	<u>118</u>
Initial Hydrostatic Pressure		(A)	<u>2809</u> P.S.I.		
Initial Flow Period	Minutes <u>30</u>	(B)	<u>38</u> P.S.I.	to (C)	<u>38</u> P.S.I.
Initial Closed In Period	Minutes <u>60</u>	(D)	<u>153</u> P.S.I.		
Final Flow Period	Minutes <u>30</u>	(E)	<u>69</u> P.S.I.	to (F)	<u>46</u> P.S.I.
Final Closed In Period	Minutes <u>60</u>	(G)	<u>61</u> P.S.I.		
Final Hydrostatic Pressure		(H)	<u>2793</u> P.S.I.		

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature]
Signature of Customer or his authorized representative

Western Representative Chris Wondra Thank you

FIELD INVOICE

Open Hole Test	\$ <u>550.00</u>
Misrun	\$ <u> </u>
Straddle Test	\$ <u> </u>
Jars	\$ <u>250.00</u>
Selective Zone	\$ <u> </u>
Safety Joint	\$ <u>35.00</u>
Standby	\$ <u> </u>
Evaluation	\$ <u> </u>
Extra Packer	\$ <u> </u>
Circ. Sub.	\$ <u> </u>
Mileage	\$ <u> </u>
Extra Charts	\$ <u> </u>

TOTAL \$ 835.00

WESTERN TESTING CO., INC.
Pressure Data

Date 4-15-79 Test Ticket No. 2410
 Recorder No. 3474 Capacity 3000 Location 5304 Ft.
 Block No. _____ Elevation 2352 AB Well Temperature 118 °F

Point	Pressure		Open Tool	Time	
				Given	Computed
Initial Hydrostatic Mud	<u>2862</u>	P.S.I.		<u>9:08</u>	<u>A M</u>
First Initial Flow Pressure	<u>41</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
First Final Flow Pressure	<u>41</u>	P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
Initial Closed-in Pressure	<u>162</u>	P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
Second Initial Flow Pressure	<u>70</u>	P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
Second Final Flow Pressure	<u>53</u>	P.S.I.			
Final Closed-in Pressure	<u>67</u>	P.S.I.			
Final Hydrostatic Mud	<u>2808</u>	P.S.I.			

PRESSURE BREAKDOWN

Point (ins.)	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.	Point Minutes	Press.	Point Minutes
1	<u>41</u>	0	<u>41</u>	0
2		3	<u>53</u>	3
3		6	<u>56</u>	6
4		9	<u>59</u>	9
5		12	<u>61</u>	12
6		15	<u>62</u>	15
7	<u>41</u>	18	<u>64</u>	18
8		21	<u>64</u>	21
9		24	<u>65</u>	24
10		27	<u>67</u>	27
11		30	<u>70</u>	30
12		33	<u>72</u>	33
13		36	<u>74</u>	36
14		39	<u>76</u>	39
15		42	<u>129</u>	42
16		45	<u>148</u>	45
17		48	<u>153</u>	48
18		51	<u>156</u>	51
19		54	<u>158</u>	54
20		57	<u>160</u>	57
		60	<u>162</u>	60

Company Pickrell Drilling Company Lease & Well No. Giles "B"#5
 Elevation 2352 Kelly Bushing Formation Morrow Sand Effective Pay -- Ft. Ticket No. 2410
 Date 4/15/79 Sec. 25 Twp. 30S Range 22W County Clark State Kansas
 Test Approved by Mike G. Russell Western Representative Denis Wondra

Formation Test No. 2 Interval Tested from 5296' ft. to 5345' ft. Total Depth 5345' ft.
 Packer Depth 5291 ft. Size 6 3/4 in. Packer Depth 5296 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) 5304 ft. Recorder Number 3474 Cap. 3000
 Bottom Recorder Depth (Outside) 5302 ft. Recorder Number 3659 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contract Pickrell Drilling Rig #1 Drill Collar Length 305 I. D. 2.7 in.
 Mud Type gel Viscosity 55 Weight Pipe Length -- I. D. -- in.
 Weight 9.6 Water Loss 17.6 cc. Drill Pipe Length 4953 I. D. 3.8 in.
 Chlorides 17,000 P.P.M. Test Tool Length 28' in. Tool Size 4 1/2 FH in.
 Jars: Make WTC Serial Number 410 Anchor Length 49' 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 XH in.

Blow: Steady weak blow throughout first flow period. No blow on second opening.

Recovered 125 ft. of drilling mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 9:08 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 12:10 ~~P.M.~~ ^{A.M.} Maximum Temperature 118
 Initial Hydrostatic Pressure (A) 2862 P.S.I.
 Initial Flow Period Minutes 30 (B) 41 P.S.I. to (C) 41 P.S.I.
 Initial Closed In Period Minutes 60 (D) 162 P.S.I.
 Final Flow Period Minutes 30 (E) 70 P.S.I. to (F) 53 P.S.I.
 Final Closed In Period Minutes 60 (G) 67 P.S.I.
 Final Hydrostatic Pressure (H) 2808 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

2410

4/15/79

Date _____

Test Ticket No. _____

Recorder No. 3474

Capacity 3000

Location 5304 Ft.

Clock No. -- Elevation 2352 Kelly Bushing

Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2862	P.S.I.	9:08A	M
B First Initial Flow Pressure	41	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	41	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	162	P.S.I.	30	Mins. 30 Mins.
E Second Initial Flow Pressure	70	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	53	P.S.I.		
G Final Closed-in Pressure	67	P.S.I.		
H Final Hydrostatic Mud	2808	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	41	0	41	0	70	53
P 2	5	41	3	53	5	61	53
P 3	10	41	6	56	10	56	53
P 4	51	41	9	59	15	53	53
P 5	20	41	12	61	20	53	53
P 6	25	41	15	62	25	53	53
P 7	30	41	18	64	30	53	53
P 8			21	64			53
P 9			24	65			53
P10			27	67			53
P11			30	70			53
P12			33	72			59
P13			36	74			67
P14			39	76			67
P15			42	129			67
P16			45	148			67
P17			48	153			67
P18			51	156			67
P19			54	158			67
P20			57	160			67
			60	162			67

Blk # 2410
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WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No

2411

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

Elevation 2352 K.B. Formation Morrow SP Eff. Pay Ft.

District Great Bend, Ks Date 4-16-79 Customer Order No.

COMPANY NAME Pickrell Drlg. Co. ADDRESS Litwin Bldg. Suite 205, 110 N Market, Wichita, Ks 67202 LEASE AND WELL NO. Coiles #5 B COUNTY Clark STATE Ks Sec. 25 Twp 30s Rge. 22w Mail Invoice To Same As Above No. Copies Requested 5 Co. Name Address Mail Charts To Address No. Copies Requested 5

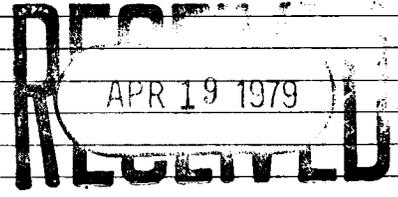
Formation Test No. 3 Interval Tested from 5295 ft. to 5370 ft. Total Depth 5370 ft. Packer Depth 5290 ft. Size 6 3/4 in. Packer Depth 5295 ft. Size 6 3/4 in. Packer Depth ft. Size in. Packer Depth ft. Size in.

Top Recorder Depth (Inside) 5317 ft. Recorder Number 3474 Cap. 3000 Bottom Recorder Depth (Outside) 5320 ft. Recorder Number 3659 Cap. 4000 Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Pickrell Drlg. Rigi Mud Type Gel Viscosity 51 Weight 9.6 Water Loss 17.5 cc. Chlorides 18,000 P.P.M. Jars: Make WTC Serial Number 410 Drill Collar Length 305 I. D. 2.7 in. Weight Pipe Length I. D. in. Drill Pipe Length 4962 I. D. 3.8 in. Test Tool Length 28 FT in. Tool Size 4 1/2 FH in. Anchor Length 75 ft. Size 5 5/8 in. Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in. Main Hole Size 7 3/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Fair. Increased To Very Good In 20 min. On 1st F.P. Very Good Throughout 2nd Opening.

Recovered 868 ft. of P. lg Mud Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of



Remarks: Flow Pressures Incorrect Packer Leakage

Table with 8 columns: Time Set, Packer(s), A.M./P.M., Time Started Off Bottom, A.M./P.M., Maximum Temperature, and PSI readings (A-H).

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By: [Signature] Signature of Customer or his authorized representative

Western Representative: [Signature] Thank you

FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Extra Charts.

TOTAL \$625.00

WESTERN TESTING CO., INC.
Pressure Data

Date 4-16-79 Test Ticket No. 2411
 Recorder No. 3474 Capacity 3000 Location 5317 Ft.
 Clock No. _____ Elevation 2352 KB Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2892</u>	P.S.I.	<u>4:08</u>	<u>A.M.</u>
B First Initial Flow Pressure	<u>89</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>235</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1489</u>	P.S.I.	<u>90</u>	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>205</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
F Second Final Flow Pressure	<u>484</u>	P.S.I.		
G Final Closed-in Pressure	<u>1502</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2859</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>18</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point	Press.	Point	Press.	Point	Press.	Point	Press.
P 1 0	<u>89</u>	0	<u>235</u>	0	<u>205</u>	0	<u>484</u>
P 2 5 <i>Plugging Action</i>		3	<u>526</u>	5 <i>Plugging Action</i>		3	<u>729</u>
P 3 10		6	<u>665</u>	10 "	"	6	<u>1086</u>
P 4 15		9	<u>773</u>	15 "	"	9	<u>1189</u>
P 5 20		12	<u>864</u>	20		12	<u>1279</u>
P 6 25		15	<u>959</u>	25		15	<u>1298</u>
P 7 30	<u>235</u>	18	<u>1030</u>	30		18	<u>1317</u>
P 8 35		21	<u>1079</u>	35		21	<u>1335</u>
P 9 40		24	<u>1123</u>	40		24	<u>1355</u>
P 10 45		27	<u>1165</u>	45		27	<u>1371</u>
P 11 50		30	<u>1205</u>	50		30	<u>1389</u>
P 12 55		33	<u>1241</u>	55		33	<u>1402</u>
P 13 60		36	<u>1277</u>	60		36	<u>1415</u>
P 14		39	<u>1314</u>	65		39	<u>1430</u>
P 15		42	<u>1350</u>	70		42	<u>1445</u>
P 16		45	<u>1386</u>	75		45	<u>1456</u>
P 17		48	<u>1408</u>	80		48	<u>1468</u>
P 18		51	<u>1429</u>	85		51	<u>1479</u>
P 19		54	<u>1447</u>	90	<u>484</u>	54	<u>1487</u>
P 20		57	<u>1469</u>			57	<u>1495</u>
		60	<u>1489</u>			60	<u>1502</u>

Company Pickrell Drilling Company Lease & Well No. Giles "B"#5
 Elevation 2352 Kelly Bushing Formation Morrow Sand Effective Pay -- Ft. Ticket No. 2411
 Date 4/16/79 Sec. 25 Twp. 30S Range 22W County Clark State Kansas
 Test Approved by Mike G. Russell Western Representative Denis Wondra

Formation Test No. 3 Interval Tested from 5295' ft. to 5370' ft. Total Depth 5370' ft.
 Packer Depth 5290 ft. Size 6 3/4 in. Packer Depth 5295 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) 5317 ft. Recorder Number 3474 Cap. 3000
 Bottom Recorder Depth (Outside) 5320 ft. Recorder Number 3659 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pickrell Drilling Rig #1 Drill Collar Length 305 I. D. 2.7 in.
 Mud Type gel Viscosity 51 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 17.5 cc. Drill Pipe Length 4962 I. D. 3.8 in.
 Chlorides 18,000 P.P.M. Test Tool Length 28' Tool Size 4 1/2 FH in.
 Jars: Make WTC Serial Number 410 Anchor Length 75' 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 XH in.

Blow: Fair. Increased to very good in 20 minutes on first flow period. Very good throughout second opening.

Recovered 868 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of MISRUN
 Recovered ft. of
 Recovered ft. of

Remarks: Flow pressures incorrect. Packer leakage.

Time Set Packer(s) 4:08 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 8:10 ~~P.M.~~ ^{A.M.} Maximum Temperature 119
 Initial Hydrostatic Pressure (A) 2892 P.S.I.
 Initial Flow Period Minutes 30 (B) 89 P.S.I. to (C) 235 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1489 P.S.I.
 Final Flow Period Minutes 90 (E) 205 P.S.I. to (F) 484 P.S.I.
 Final Closed In Period Minutes 60 (G) 1502 P.S.I.
 Final Hydrostatic Pressure (H) 2859 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 4/16/79 2411
 Recorder No. 3494 Capacity 3000 Test Ticket No. _____
 Location 5317 Ft.
 Clock No. -- Elevation 2352 Kelly Bushing Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2892	P.S.I.	4:08A	M
B First Initial Flow Pressure	89	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	235	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1489	P.S.I.	90	Mins. 90 Mins.
E Second Initial Flow Pressure	205	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	484	P.S.I.		
G Final Closed-in Pressure	1502	P.S.I.		
H Final Hydrostatic Mud	2859	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>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>89</u>	<u>0</u>	<u>235</u>	<u>0</u>	<u>205</u>	<u>0</u>	<u>484</u>
P 2 <u>5</u>	Plugging action	<u>3</u>	<u>526</u>	<u>5</u>	Plugging action	<u>3</u>	<u>729</u>
P 3 <u>10</u>	Plugging action	<u>6</u>	<u>665</u>	<u>10</u>	Plugging action	<u>6</u>	<u>1086</u>
P 4 <u>15</u>	Plugging action	<u>9</u>	<u>773</u>	<u>15</u>	Plugging action	<u>9</u>	<u>1189</u>
P 5 <u>20</u>	Plugging action	<u>12</u>	<u>864</u>	<u>20</u>	Plugging action	<u>12</u>	<u>1279</u>
P 6 <u>25</u>	Plugging action	<u>15</u>	<u>958</u>	<u>25</u>	Plugging action	<u>15</u>	<u>1298</u>
P 7 <u>30</u>	<u>235</u>	<u>18</u>	<u>1030</u>	<u>30</u>	Plugging action	<u>18</u>	<u>1317</u>
P 8 _____		<u>21</u>	<u>1079</u>	<u>35</u>	Plugging action	<u>21</u>	<u>1335</u>
P 9 _____		<u>24</u>	<u>1123</u>	<u>40</u>	Plugging action	<u>24</u>	<u>1355</u>
P10 _____		<u>27</u>	<u>1165</u>	<u>45</u>	Plugging action	<u>27</u>	<u>1371</u>
P11 _____		<u>30</u>	<u>1205</u>	<u>50</u>	Plugging action	<u>30</u>	<u>1389</u>
P12 _____		<u>33</u>	<u>1241</u>	<u>55</u>	Plugging action	<u>33</u>	<u>1402</u>
P13 _____		<u>36</u>	<u>1277</u>	<u>60</u>	Plugging action	<u>36</u>	<u>1415</u>
P14 _____		<u>39</u>	<u>1314</u>	<u>65</u>	Plugging action	<u>39</u>	<u>1430</u>
P15 _____		<u>42</u>	<u>1350</u>	<u>70</u>	Plugging action	<u>42</u>	<u>1445</u>
P16 _____		<u>45</u>	<u>1386</u>	<u>75</u>	Plugging action	<u>45</u>	<u>1456</u>
P17 _____		<u>48</u>	<u>1408</u>	<u>80</u>	Plugging action	<u>48</u>	<u>1468</u>
P18 _____		<u>51</u>	<u>1429</u>	<u>85</u>	Plugging action	<u>51</u>	<u>1479</u>
P19 _____		<u>54</u>	<u>1447</u>	<u>90</u>	<u>484</u>	<u>54</u>	<u>1487</u>
P20 _____		<u>57</u>	<u>1469</u>			<u>57</u>	<u>1495</u>
WTC - 4		<u>60</u>	<u>1489</u>			<u>60</u>	<u>1502</u>

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