



P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 21721

Formation ~~MISS~~ Elevation 2389 DF Eff. Pay _____ Ft.

District Pratt Date 1-7-77 Customer Order No. _____

COMPANY NAME Pickrell Oil Co
ADDRESS Litwin Bld - suite 205 110 N. MARKET WICHITA KS.
LEASE AND WELL NO. Hemphill #1B COUNTY CLARK STATE KANSAS Sec. 24 Twp. 70S Rge. 22W

Mail Inv. To SAME AS ABOVE Co. Name _____ Address _____ No. Copies Requested USUAL

Mail Charts To SAME AS ABOVE Address _____ No. Copies Requested USUAL

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 5305 to 5356 Total Depth 5356
Size Main Hole 7 3/4 Rat Hole _____ Conv. B.T. _____ Damaged Yes No Conv. _____ B.T. Damaged Yes No
Top Packer Depth 5300 Ft. Size 6 3/4 Bottom Packer Depth 5305 Ft. Size 6 3/4
Straddle _____ Conv. _____ B.T. _____ Damaged _____ Yes _____ No Packer Depth _____ Ft. Size _____
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 51 Ft. Size 3 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5307 Ft. Clock No. 4263 Inside _____ Outside _____
Top Make KUSTER Cap. 4150 No. 2604 Inside _____ Outside _____
Bottom Make KUSTER Cap. 4000 No. 3660 Inside _____ Outside _____
Below Straddle: Depth _____ Rec. No. _____ Clock No. _____ Inside _____ Outside _____

Time Set Packer 2:56 P.M.
Tool Open I.F.P. From 2:58 P.M. to 3:28 P.M. - Hr. 30 Min. From (B) 3:28 P.S.I. To (C) 3:28 P.S.I.
Tool Closed I.C.I.P. From 3:28 P.M. to 3:58 P.M. - Hr. 30 Min. (D) 6347 P.S.I.
Tool Open F.F.P. From 3:58 P.M. to 5:28 P.M. 1 Hr. 30 Min. From (E) 4232 To (F) 4235 P.S.I.
Tool Closed F.C.I.P. From 5:28 P.M. to 6:28 P.M. 1 Hr. _____ Min. (G) 2760 5361 P.S.I.
Initial Hydrostatic Pressure (A) 2718 P.S.I. Final Hydrostatic Pressure (H) 2718 P.S.I. Maximum Temp. 118

BLOW WEAK blow died in 80 MIN ~~2 MP~~ OPENING

Did Well Flow Yes No _____ Recovery Total Ft. 35 ft. DRILL MUD

Reversed Out Yes No _____ Mud Type STARCH Viscosity 42 Weight 9.7 Water Loss 15.2 cc. Chlorides 49000

EXTRA EQUIPMENT: Type Circ. Sub. PIN Safety Joint _____ Jars: Size 4 1/2 OD Make W.T.C. Ser. No. 403

Dual Packers yes Did Packers Hold? yes Did Tool Plug? NO Where? _____

DRILLING CONTRACTOR CO. TOOLS Length Drill Pipe 5066 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.
Length Weight Pipe _____ ft. I.D. Weight Pipe _____ In. Tool Joint Size _____ In. Length Drill Collars 213 ft. I.D. Drill Collars 2 1/4 In.
Tool Joint Size 4 1/2 H 90 Length D.S.T. Tool 27 ft.

Remarks _____

RECEIVED
JAN 11 1977

INVOICE SECTION

Open Hole Test	\$ 440.00
Straddle Test	\$
Jars	\$ 175.00
Selective Zone	\$
Safety Joint	\$
Misrun	\$
Evaluation	\$
Packer	\$
Circ. Sub.	\$
Total	\$ 615.00

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage 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, or 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 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Benny A. Singleton Signature of Customer or his Authorized Representative
Western Representative Carl Schouten
Operator's Time Thank you Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 1-7-77

Test Ticket No. 21721

Recorder No. 2604

Capacity 4150

Location 5307 Ft.

Clock No. 4763

Elevation 2389 D.F.

Well Temperature 118 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>2760</u>	P.S.I.
B First Initial Flow Pressure	<u>28</u>	P.S.I.
C First Final Flow Pressure	<u>29</u>	P.S.I.
D Initial Closed-in Pressure	<u>47</u>	P.S.I.
E Second Initial Flow Pressure	<u>32</u>	P.S.I.
F Second Final Flow Pressure	<u>35</u>	P.S.I.
G Final Closed-in Pressure	<u>61</u>	P.S.I.
H Final Hydrostatic Mud	<u>2760</u>	P.S.I.

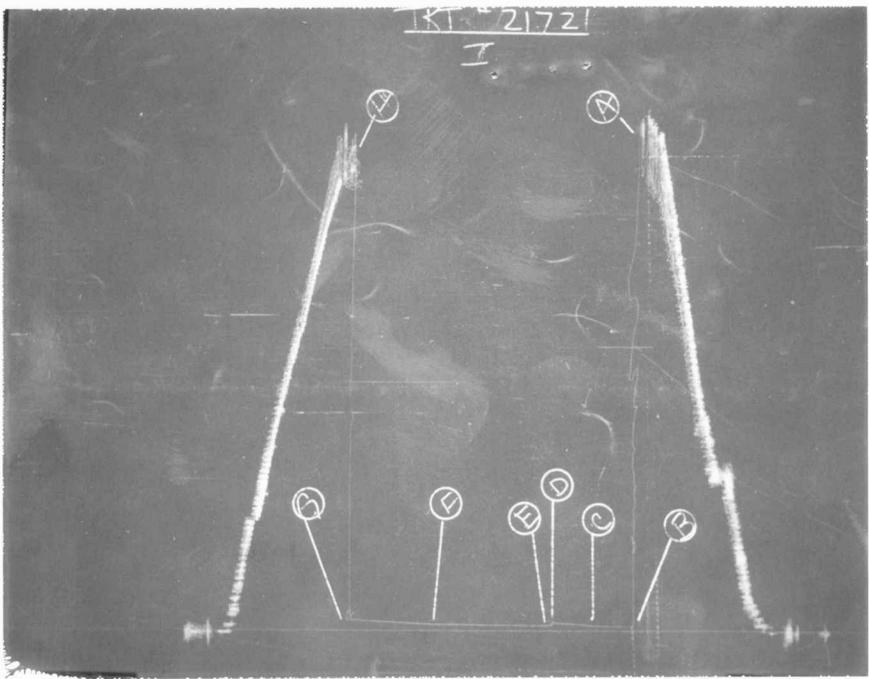
	Time Given	Time Computed
Open Tool	<u>2:56 P.</u>	M
First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
Initial Closed-in Pressure	<u>30</u> Mins.	30 <u>33</u> Mins.
Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
Final Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.

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>21</u> Inc.	
of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.		of <u>5</u> mins. and a final inc. of <u>0</u> Min.		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>0</u>	<u>29</u>	<u>0</u>	<u>32</u>	<u>0</u>	<u>35</u>
P 2	<u>5</u>	<u>3</u>	<u>30</u>	<u>5</u>	<u>30</u>	<u>3</u>	<u>36</u>
P 3	<u>10</u>	<u>6</u>	<u>33</u>	<u>10</u>	<u>"</u>	<u>6</u>	<u>38</u>
P 4	<u>15</u>	<u>9</u>	<u>36</u>	<u>15</u>	<u>"</u>	<u>9</u>	<u>"</u>
P 5	<u>20</u>	<u>12</u>	<u>37</u>	<u>20</u>	<u>"</u>	<u>12</u>	<u>40</u>
P 6	<u>25</u>	<u>15</u>	<u>38</u>	<u>25</u>	<u>31</u>	<u>15</u>	<u>41</u>
P 7	<u>30</u>	<u>18</u>	<u>39</u>	<u>30</u>	<u>32</u>	<u>18</u>	<u>43</u>
P 8	<u>35</u>	<u>21</u>	<u>40</u>	<u>35</u>	<u>"</u>	<u>21</u>	<u>44</u>
P 9	<u>40</u>	<u>24</u>	<u>43</u>	<u>40</u>	<u>"</u>	<u>24</u>	<u>45</u>
P10	<u>45</u>	<u>27</u>	<u>45</u>	<u>45</u>	<u>"</u>	<u>27</u>	<u>46</u>
P11	<u>50</u>	<u>30</u>	<u>46</u>	<u>50</u>	<u>33</u>	<u>30</u>	<u>47</u>
P12	<u>55</u>	<u>33</u>	<u>47</u>	<u>55</u>	<u>"</u>	<u>33</u>	<u>48</u>
P13	<u>60</u>	<u>36</u>		<u>60</u>	<u>34</u>	<u>36</u>	<u>49</u>
P14		<u>39</u>		<u>65</u>	<u>"</u>	<u>39</u>	<u>50</u>
P15		<u>42</u>		<u>70</u>	<u>"</u>	<u>42</u>	<u>51</u>
P16		<u>45</u>		<u>75</u>	<u>35</u>	<u>45</u>	<u>52</u>
P17		<u>48</u>		<u>80</u>	<u>"</u>	<u>48</u>	<u>53</u>
P18		<u>51</u>		<u>85</u>	<u>"</u>	<u>51</u>	<u>54</u>
P19		<u>54</u>		<u>90</u>	<u>35</u>	<u>54</u>	<u>55</u>
P20		<u>57</u>				<u>57</u>	<u>58</u>
		<u>60</u>				<u>60</u>	<u>59</u>
						<u>63</u>	<u>60</u>

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Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Pickrell Drilling Company Lease & Well No. Hemphill "B" #1
Elevation 2389 Derrick Floor Formation Mississippi Effective Pay - Ft. Ticket No. #21721
Date 1-7-77 Sec. 24 Twp. 30S Range 22W County Clark State Kansas
Test Approved by Benny Singleton Western Representative Carl Schouten

Formation Test No. 1 O.K. Misrun Interval Tested From 5305' to 5356' Total Depth 5356'
Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 5300 Ft. Size 6 3/4 Bottom Packer Depth 5305 Ft. Size 6 3/4
Straddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 51 Ft. Size 20' 31' 6 1/2 OD
Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5307 Ft. Clock No. 4763 Depth 5310 Ft. Clock No. 6866
Top Make Kuster Cap. 4150 No. 2604 Inside Outside Bottom Make Kuster Cap. 4000 No. 3660 Inside Outside
Below Straddle: Depth Rec. No. Clock No. Inside Outside Depth Ft. Rec. No. Clock No. Inside Outside

Time Set Packer 2:56 P M
Tool Open I.F.P. From 2:58P M. to 3:28P M. - Hr. 30 Min. From (B) 28 P.S.I. To (C) 29 P.S.I.
Tool Closed I.C.I.P. From 3:28P M. to 3:58P M. - Hr. 30 Min (D) 47 P.S.I.
Tool Open F.F.P. From 3:58P M. to 5:28P M. - Hr. 90 Min. From (E) 32 P.S.I. To (F) 35 P.S.I.
Tool Closed F.C.I.P. From 5:28P M. to 6:28P M. - Hr. 60 Min. (G) 61 P.S.I.
Initial Hydrostatic Pressure (A) 2760 P.S.I. Final Hydrostatic Pressure (H) 2760 P.S.I. Maximum Temp. 118

INFORMATION

BLOW Weak blow - died in 80 minutes second opening.

Did Well Flow Yes No Recovery Total Ft. 35' drilling mud.

Reversed Out Yes No Mud Type starch Viscosity 42 Weight 9.7 Water Loss 15.2 cc. Chlorides 49,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint Jars: Size 4 1/2 OD In. Make WTC Ser. No. 403

Dual Packer Did Packers Hold? Did Tool Plug? no Where?

DRILLING CONTRACTOR Co. Tools Length Drill Pipe? 5066 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe Ft. I.D. Weight Pipe In. Tool Joint Size In. Length Drill Collars 263 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 77 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 1-7-77

Test Ticket No. #21721

Recorder No. 2604

Capacity 4150

Location 5307 Ft.

Clock No. 4763

Elevation 2389 Derrick Floor

Well Temperature 118 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>2760</u>	P.S.I.
B First Initial Flow Pressure	<u>28</u>	P.S.I.
C First Final Flow Pressure	<u>29</u>	P.S.I.
D Initial Closed-in Pressure	<u>47</u>	P.S.I.
E Second Initial Flow Pressure	<u>32</u>	P.S.I.
F Second Final Flow Pressure	<u>35</u>	P.S.I.
G Final Closed-in Pressure	<u>61</u>	P.S.I.
H Final Hydrostatic Mud	<u>2760</u>	P.S.I.

Open Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

Time Given	Time Computed
<u>2:56 P</u>	<u>M</u>
<u>30</u> Mins.	<u>30</u> Mins.
<u>30</u> Mins.	<u>33</u> Mins.
<u>90</u> Mins.	<u>90</u> Mins.
<u>60</u> Mins.	<u>66</u> Mins.

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 22 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>28</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>32</u>	<u>0</u>	<u>35</u>
P 2 <u>5</u>	<u>23</u>	<u>3</u>	<u>30</u>	<u>5</u>	<u>30</u>	<u>3</u>	<u>36</u>
P 3 <u>10</u>	<u>26</u>	<u>6</u>	<u>33</u>	<u>10</u>	<u>30</u>	<u>6</u>	<u>38</u>
P 4 <u>15</u>	<u>27</u>	<u>9</u>	<u>36</u>	<u>15</u>	<u>30</u>	<u>9</u>	<u>38</u>
P 5 <u>20</u>	<u>28</u>	<u>12</u>	<u>37</u>	<u>20</u>	<u>30</u>	<u>12</u>	<u>40</u>
P 6 <u>25</u>	<u>28</u>	<u>15</u>	<u>38</u>	<u>25</u>	<u>31</u>	<u>15</u>	<u>41</u>
P 7 <u>30</u>	<u>29</u>	<u>18</u>	<u>39</u>	<u>30</u>	<u>32</u>	<u>18</u>	<u>43</u>
P 8		<u>21</u>	<u>40</u>	<u>35</u>	<u>32</u>	<u>21</u>	<u>44</u>
P 9		<u>24</u>	<u>43</u>	<u>40</u>	<u>32</u>	<u>24</u>	<u>45</u>
P10		<u>27</u>	<u>45</u>	<u>45</u>	<u>32</u>	<u>27</u>	<u>46</u>
P11		<u>30</u>	<u>46</u>	<u>50</u>	<u>33</u>	<u>30</u>	<u>47</u>
P12		<u>33</u>	<u>47</u>	<u>55</u>	<u>33</u>	<u>33</u>	<u>48</u>
P13				<u>60</u>	<u>34</u>	<u>36</u>	<u>49</u>
P14				<u>65</u>	<u>34</u>	<u>39</u>	<u>50</u>
P15				<u>70</u>	<u>34</u>	<u>42</u>	<u>51</u>
P16				<u>75</u>	<u>35</u>	<u>45</u>	<u>52</u>
P17				<u>80</u>	<u>35</u>	<u>48</u>	<u>53</u>
P18				<u>85</u>	<u>35</u>	<u>51</u>	<u>54</u>
P19				<u>90</u>	<u>35</u>	<u>54</u>	<u>55</u>
P20						<u>57</u>	<u>58</u>
						<u>60</u>	<u>59</u>
						<u>63</u>	<u>60</u>
						<u>66</u>	<u>61</u>