



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET 22737

P. O. BOX 793 PHONE 793-7903

GREAT BEND, KANSAS

Formation MORROW Elevation 2550 KB Eff. Pay _____ Ft.

District PRATT Date 9-27-77 Customer Order No. _____

COMPANY NAME PICKRELL DRILLING CO. Drilling Company

ADDRESS Lutwin Bldg. Suite 205 Wichita 67202

LEASE AND WELL NO. ARDEX #3 "B" COUNTY CLARK STATE KS. Sec. 2 Twp. 31S Rge. 24W

Mail Inv. To _____ No. Copies Requested _____

Co. Name _____ Address _____

Mail Charts To _____ No. Copies Requested _____

Address _____

Formation Test No. 748 O.K. Misrun Interval Tested From 5440' to 5475' Total Depth 5475'

Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 5435 Ft. Size 6 3/4 Bottom Packer Depth 5440 Ft. Size 6 3/4

Straddle Conv. B.T. Damaged Yes No Packer Depth _____ Ft. Size _____

Tool Size 5/8 OD Tool Joint Size 4 1/2 FH Anchor Length 35 Ft. Size 5/8 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5447 Ft. Clock No. 10168 Depth 5450 Ft. Clock No. 6894

Top Make KUSTER Cap. 4150 No. 969 Inside Outside Bottom Make KUSTER Cap. 4400 No. 2603 Inside Outside

Below Straddle: Depth _____ Rec. No. _____ Clock No. _____ Depth _____ Ft. Rec. No. _____ Clock No. _____ Inside Outside

Time Set Packer 1025P M

Tool Open I.F.P. From 1027P M. to 1057P M. Hr. 30 Min. From (B) 71 67 P.S.I. To (C) 71 59 P.S.I.

Tool Closed I.C.I.P. From 1057P M. to 1127P M. Hr. 30 Min. (D) 71 66 P.S.I.

Tool Open F.F.P. From 1127P M. to 1127P M. Hr. 10 Min. From (E) 71 66 P.S.I. To (F) 71 63 P.S.I.

Tool Closed F.C.I.P. From _____ M. to _____ M. Hr. 04T Min. (G) not taken P.S.I.

Initial Hydrostatic Pressure (A) 2,772 P.S.I. Final Hydrostatic Pressure (H) 2,772 P.S.I. Maximum Temp. 123°

INFORMATION

BLOW HAD VERY WEAK BLOW ON OPENING THEN DIED ON I.F.P.
NO BLOW F.F.P.

Did Well Flow Yes No Recovery Total Ft. 5 ft. mud.

Reversed Out Yes No Mud Type 3 stack premix Viscosity 41 Weight 9.7 Water Loss 10.2 cc. Chlorides 37,000.

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

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

DRILLING CONTRACTOR PICKRELL DRILL RIG #1 Length Drill Pipe 5169 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 244 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 62 ft.

Remarks _____

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 Brad Pine
Signature of Customer or his Authorized Representative

Western Representative Joe N. Luck

Operator's Time 12.30

WESTERN TESTING CO., INC.
Pressure Data

Date 9-27 Test Ticket No. 22737
 Recorder No. 969 Capacity 4150 Location 5447 Ft.
 Clock No. 10168 Elevation 2550 Kelly Bushing Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2783</u>	P.S.I.	<u>10:25 P M</u>	
B First Initial Flow Pressure	<u>67</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>59</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>66</u>	P.S.I.	<u>10</u> Mins.	<u>10</u> Mins.
E Second Initial Flow Pressure	<u>66</u>	P.S.I.	<u>—</u> Mins.	<u>—</u> Mins.
F Second Final Flow Pressure	<u>63</u>	P.S.I.		
G Final Closed-in Pressure	<u>Not taken</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2783</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>2</u> Inc.		Breakdown: <u>—</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>0</u>	<u>59</u>	<u>0</u>	<u>66</u>	<u>0</u>	
P 2	<u>5</u>	<u>3</u>	<u>61</u>	<u>5</u>	<u>63</u>	<u>3</u>	
P 3	<u>10</u>	<u>6</u>	<u>63</u>	<u>10</u>	<u>63</u>	<u>6</u>	
P 4	<u>15</u>	<u>9</u>	<u>65</u>	<u>15</u>		<u>9</u>	
P 5	<u>20</u>	<u>12</u>	<u>66</u>	<u>20</u>		<u>12</u>	
P 6	<u>25</u>	<u>15</u>	<u>68</u>	<u>25</u>		<u>15</u>	
P 7	<u>30</u>	<u>18</u>	<u>72</u>	<u>30</u>		<u>18</u>	
P 8	<u>35</u>	<u>21</u>	<u>73</u>	<u>35</u>		<u>21</u>	
P 9	<u>40</u>	<u>24</u>	<u>75</u>	<u>40</u>		<u>24</u>	
P 10	<u>45</u>	<u>27</u>	<u>73</u>	<u>45</u>		<u>27</u>	
P 11	<u>50</u>	<u>30</u>	<u>66</u>	<u>50</u>		<u>30</u>	
P 12	<u>55</u>	<u>33</u>		<u>55</u>		<u>33</u>	
P 13	<u>60</u>	<u>36</u>		<u>60</u>		<u>36</u>	
P 14		<u>39</u>		<u>65</u>		<u>39</u>	
P 15		<u>42</u>		<u>70</u>		<u>42</u>	
P 16		<u>45</u>		<u>75</u>		<u>45</u>	
P 17		<u>48</u>		<u>80</u>		<u>48</u>	
P 18		<u>51</u>		<u>85</u>		<u>51</u>	
P 19		<u>54</u>		<u>90</u>		<u>54</u>	
P 20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	



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

Company Pickrell Drilling Company Lease & Well No. Ardney B-#3
 Elevation 2550 Kelly Bush. Formation Morrow Effective Pay - Ft. Ticket No. 22737
 Date 9-27-77 Sec. 2 Twp. 31S Range 24W County Clark State Kansas
 Test Approved by Brad Rine Western Representative Joe N. Lusk

Formation Test No. 1 O.K. Misrun Interval Tested From 5440' to 5475' Total Depth 5475'
 Size Main Hole 7 7/8 Rat Hole 12 1/4 Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 5435 Ft. Size 6 3/4 Bottom Packer Depth 5440 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 35 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5447 Ft. Clock No. 10168 Depth 5450 Ft. Clock No. 6894
 Top Make Kuster Cap. 4150 No. 969 ~~Inside~~ Outside Bottom Make Kuster Cap. 4400 No. 2603 ~~Inside~~ Outside
 Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside

Time Set Packer 10:25P M
 Tool Open I.F.P. From 10:27P M. to 10:51P M. - Hr. 30 Min. From (B) 67 P.S.I. To (C) 59 P.S.I.
 Tool Closed I.C.I.P. From 10:51P M. to 11:27P M. - Hr. 30 Min (D) 66 P.S.I.
 Tool Open F.F.P. From 11:27P M. to 11:37P M. - Hr. 10 Min. From (E) 66 P.S.I. To (F) 63 P.S.I.
 Tool Closed F.C.I.P. From - M. to - M. - Hr. - Min. (G) - P.S.I.
 Initial Hydrostatic Pressure (A) 2783 P.S.I. Final Hydrostatic Pressure (H) 2783 P.S.I. Maximum Temp. 123

INFORMATION

BLOW Had very weak blow on opening, then died on initial flow period. No blow on final flow period.

Did Well Flow - Yes No Recovery Total Ft. 5' mud.

Reversed Out - Yes No Mud Type Premix Viscosity 41 Weight 9.7 Water Loss 10.2 cc. Chlorides 37,000 p.p.m.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size 4 1/2 OD In. Make W.T.C. Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Pickrell Drlg. Rig #1 Length Drill Pipe? 5169 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 244 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 62 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 9-27-77

Test Ticket No. 22737

Recorder No. 969 Capacity 4150 Location 5447 Ft.

Clock No. 10168 Elevation 2550 Kelly Bushing Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2783</u> P.S.I.	Open Tool	<u>10:25P</u> M	
B First Initial Flow Pressure	<u>67</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>59</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>66</u> P.S.I.	Second Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
E Second Initial Flow Pressure	<u>66</u> P.S.I.	Final Closed-in Pressure	<u>-</u> Mins.	<u>-</u> Mins.
F Second Final Flow Pressure	<u>63</u> P.S.I.			
G Final Closed-in Pressure	<u>not taken</u> P.S.I.			
H Final Hydrostatic Mud	<u>2783</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: 10 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 _____ mins. and a
final inc. of _____ 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>59</u>	<u>0</u>	<u>66</u>		
P 2 <u>5</u>	<u>51</u>	<u>3</u>	<u>61</u>	<u>5</u>	<u>63</u>		
P 3 <u>10</u>	<u>49</u>	<u>6</u>	<u>63</u>	<u>10</u>	<u>63</u>		
P 4 <u>15</u>	<u>52</u>	<u>9</u>	<u>65</u>				
P 5 <u>20</u>	<u>55</u>	<u>12</u>	<u>66</u>				
P 6 <u>25</u>	<u>57</u>	<u>15</u>	<u>68</u>				
P 7 <u>30</u>	<u>59</u>	<u>18</u>	<u>72</u>				
P 8 _____		<u>21</u>	<u>73</u>				
P 9 _____		<u>24</u>	<u>75</u>				
P10 _____		<u>27</u>	<u>73</u>				
P11 _____		<u>30</u>	<u>66</u>				
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

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TKI # 22737

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