



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 22258

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

Formation MARMATION Elevation 2542 Ft. Eff. Pay _____ Ft.

District PRATT Date 6-30-76 Customer Order No. _____

COMPANY NAME PICKRELL DRILLING Co. Drilling Company

ADDRESS 617 TWIN BLDG, SUITE 205 110 N. MARKET WICHITA, KS 67202

LEASE AND WELL NO. ARDREY #1B COUNTY CLARK STATE KANSAS Sec. 2 Twp. 31S Rge. 24W

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

Mail Charts To _____ Co. Name SAME Address _____ No. Copies Requested USUAL

Formation Test No. 1 O.K. X Misrun _____ Interval Tested From 5205 to 5263 Total Depth 5263

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

Top Packer Depth 5200 Ft. Size 6 3/4 Bottom Packer Depth 5205 Ft. Size 6 3/4

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

Tool Size 5 1/2" O.D. Tool Joint Size 4 1/2" F.H. Anchor Length 58 Ft. Size 3 1/2" O.D. Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5217 Ft. Clock No. 8474 Depth 5220 Ft. Clock No. 4763

Top Make KUSTER Cap. 4150 No. 2604 Inside _____ Outside _____ Bottom Make KUSTER Cap. 4200 No. 3354 Inside _____ Outside _____

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

Time Set Packer 9:15 P.M.

Tool Open I.F.P. From 9:17 M. to 9:47 M. Hr. 30 Min. From (B) 70 92 P.S.I. To (C) 110 134 P.S.I.

Tool Closed I.C.I.P. From 9:47 M. to 10:47 M. Hr. 1 Min. (D) 2210 P.S.I. To (E) 2240 P.S.I.

Tool Open F.F.P. From 10:47 M. to 12:17 M. Hr. 30 Min. From (E) 127153 P.S.I. To (F) 170 180 P.S.I.

Tool Closed F.C.I.P. From 12:17 M. to 1:17 M. Hr. 1 Min. (G) 1600 P.S.I. To (H) 1626 P.S.I.

Initial Hydrostatic Pressure (A) 27812835 P.S.I. Final Hydrostatic Pressure (H) 27812739 P.S.I. Maximum Temp. 124

INFORMATION

BLOW GOOD BLOW THRU-OUT TEST

Did Well Flow Yes X No _____ Recovery Total Ft. 315 ft. 15' GAS CUT

300' GAS CUT MUDDY WATER w/oil SPOTS

Reversed Out Yes X No _____ Mud Type STARCH Viscosity 53 Weight 9.6 Water Loss 16.8 cc. Chlorides 55000

EXTRA EQUIPMENT: Type Circ. Sub. PIN Safety Joint _____ Jars: Size 4 1/2" O.D. In. Make WTC Ser. No. 404

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

DRILLING CONTRACTOR CO. TOOLS Length Drill Pipe 5056 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2" X 4 In.

Length Weight Pipe _____ ft. I.D. Weight Pipe _____ In. Tool Joint Size _____ In. Length Drill Collars 124 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2" H90 In. Length D.S.T. Tool 83 ft.

Remarks PLUGGING ACTION ON INTIAL OPENING

Chlorides Checked 94,000 PPM

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 Rine Western Representative Bill Rager

Signature of Customer or his Authorized Representative _____ Operator's Time _____ Hrs.

INVOICE SECTION

Open Hole Test	\$ <u>425.00</u>
Straddle Test	\$ _____
Jars	\$ <u>165.00</u>
Selective Zone	\$ _____
Safety Joint	\$ _____
Misrun	\$ _____
Evaluation	\$ _____
Packer	\$ _____
Circ. Sub.	\$ _____
Total	\$ <u>590.00</u>

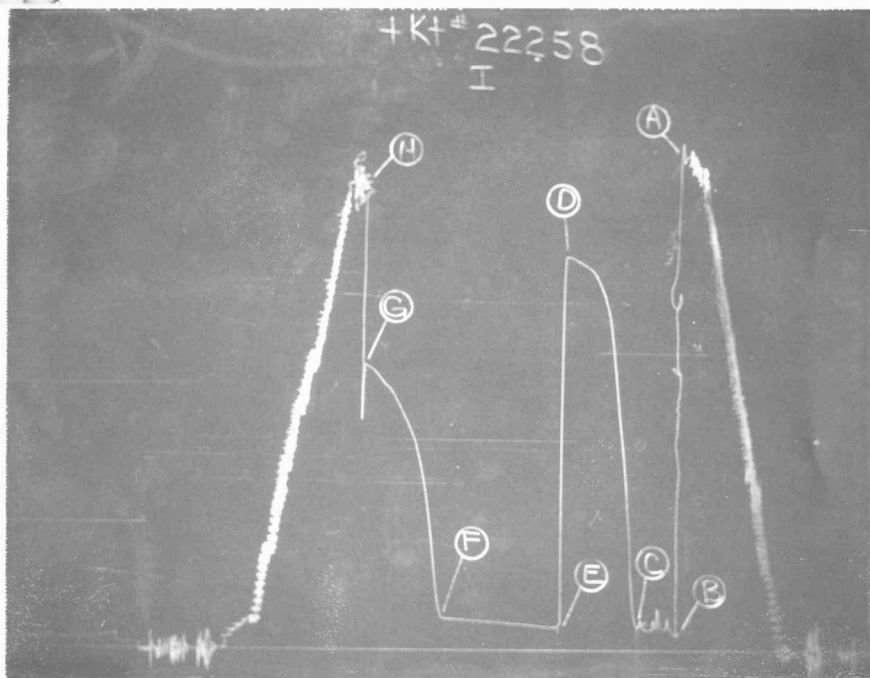
WESTERN TESTING CO., INC. Pressure Data

Date 6-30-76 Test Ticket No. 22258
 Recorder No. 2604 Capacity 4150 Location 327 F
 Clock No. 8474 Elevation 2842 K.B. Well Temperature 124
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 2835 P.S.I. Open Tool 9:15 P M
 B First Initial Flow Pressure 92 P.S.I. First Flow Pressure 30 Mins. 30 Min
 C First Final Flow Pressure 134 P.S.I. Initial Closed-in Pressure 60 Mins. 57 Min
 D Initial Closed-in Pressure 2240 P.S.I. Second Flow Pressure 90 Mins. 90 Min
 E Second Initial Flow Pressure 153 P.S.I. Final Closed-in Pressure 60 Mins. 60 Min
 F Second Final Flow Pressure 180 P.S.I.
 G Final Closed-in Pressure 1626 P.S.I.
 H Final Hydrostatic Mud 2739 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>19</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.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>92</u>	0	<u>134</u>	0	<u>153</u>	0	<u>180</u>
P 2 5	<u>Plugging</u>	3	<u>252</u>	5	<u>130</u>	3	<u>245</u>
P 3 10	<u>Action</u>	6	<u>571</u>	10	<u>132</u>	6	<u>384</u>
P 4 15	<u>"</u>	9	<u>803</u>	15	<u>136</u>	9	<u>604</u>
P 5 20	<u>"</u>	12	<u>1069</u>	20	<u>141</u>	12	<u>803</u>
P 6 25	<u>"</u>	15	<u>1301</u>	25	<u>145</u>	15	<u>951</u>
P 7 30	<u>134</u>	18	<u>1569</u>	30	<u>147</u>	18	<u>1073</u>
P 8 35		21	<u>1776</u>	35	<u>150</u>	21	<u>1178</u>
P 9 40		24	<u>1928</u>	40	<u>153</u>	24	<u>1242</u>
P 10 45		27	<u>2015</u>	45	<u>156</u>	27	<u>1295</u>
P 11 50		30	<u>2074</u>	50	<u>160</u>	30	<u>1343</u>
P 12 55		33	<u>2127</u>	55	<u>162</u>	33	<u>1389</u>
P 13 60		36	<u>2156</u>	60	<u>164</u>	36	<u>1435</u>
P 14		39	<u>2177</u>	65	<u>168</u>	39	<u>1473</u>
P 15		42	<u>2192</u>	70	<u>171</u>	42	<u>1498</u>
P 16		45	<u>2207</u>	75	<u>173</u>	45	<u>1521</u>
P 17		48	<u>2219</u>	80	<u>176</u>	48	<u>1552</u>
P 18		51	<u>2232</u>	85	<u>178</u>	51	<u>1580</u>
P 19		54	<u>2238</u>	90	<u>180</u>	54	<u>1608</u>
P 20		57	<u>2240</u>			57	<u>1611</u>
		60				60	<u>1626</u>

+Kt# 22258
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INC.

P. O. Box 1599

Wichita, Kansas 67201

Company Pickrell Drilling Company Lease & Well No. Ardrey #1-B
Elevation 2542 Kelly Bush Formation Marmaton Effective Pay - Ft. Ticket No. 22258
Date 6-30-76 Sec. 2 Twp. 31S Range 24W County Clark State Kansas
Test Approved by Brad Rine Western Representative Bill Hager
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 5205' to 5263' Total Depth 5263'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 5200 Ft. Size 6 3/4 Bottom Packer Depth 5205 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 58 Ft. Size 27'-5 1/2 OD Surface Choke Size 3 1/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 5217 Ft. Clock No. 8474 Depth 5220 Ft. Clock No. 4763
Top Make Kuster Cap. 4150 No. 2604 Inside Outside Bottom Make Kuster Cap. 4200 No. 3354 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 9:15 A. M.
Tool Open I.F.P. From 9:17P M. to 9:47P M. - Hr. 30 Min. From (B) 92 P.S.I. To (C) 134 P.S.I.
Tool Closed I.C.I.P. From 9:47P M. to 10:47P M. 1 Hr. - Min (D) 2240 P.S.I.
Tool Open F.F.P. From 10:47P M. to 12:17A M. 1 Hr. 30 Min. From (E) 153 P.S.I. To (F) 180 P.S.I.
Tool Closed F.C.I.P. From 12:17M to 1:17A M. 1 Hr. - Min. (G) 1626 P.S.I.
Initial Hydrostatic Pressure (A) 2835 P.S.I. Final Hydrostatic Pressure (H) 2739 P.S.I. Maximum Temp. 124

INFORMATION

BLOW Good blow throughout test.

Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 315' of total fluid recovery. 15' of gas cut drilling mud
with oil spots. 300' of gas cut muddy water with oil spots.

Reversed Out - Yes ☒ No ☐ Mud Type Starch Viscosity 53 Weight 9.6 Water Loss 16.8 cc. Chlorides 55,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size 4 1/2 OD In. Make WTC Ser. No. 404

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

DRILLING CONTRACTOR Pickrell Drlg. Co. Length Drill Pipe? 5056 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 124 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4 1/2 H-90 Length D.S.T. Tool 83 Ft.

Remarks: Plugging action on initial opening. Chlorides checked - 91,000 P.P.M.

WESTERN TESTING CO., INC.

Pressure Data

Date 6-30-76

Test Ticket No. 22258

Recorder No. 2604 Capacity 4150 Location 5217 Ft.

Clock No. 8474 Elevation 2542 Kelly Bushing Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2835</u>	P.S.I.	<u>9:15</u>	P.M.
B First Initial Flow Pressure	<u>92</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>134</u>	P.S.I.	<u>60</u>	Mins. <u>57</u> Mins.
D Initial Closed-in Pressure	<u>2240</u>	P.S.I.	<u>90</u>	Mins. <u>90</u> Mins.
E Second Initial Flow Pressure	<u>153</u>	P.S.I.	<u>60</u>	Mins. <u>60</u> Mins.
F Second Final Flow Pressure	<u>180</u>	P.S.I.		
G Final Closed-in Pressure	<u>1626</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2739</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>19</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>92</u>	<u>0</u>	<u>134</u>	<u>0</u>	<u>153</u>	<u>0</u>	<u>180</u>
P 2 <u>5</u>	Plugging Action	<u>3</u>	<u>252</u>	<u>5</u>	<u>130</u>	<u>3</u>	<u>245</u>
P 3 <u>10</u>	Plugging Action	<u>6</u>	<u>571</u>	<u>10</u>	<u>132</u>	<u>6</u>	<u>384</u>
P 4 <u>15</u>	Plugging Action	<u>9</u>	<u>803</u>	<u>15</u>	<u>136</u>	<u>9</u>	<u>604</u>
P 5 <u>20</u>	Plugging Action	<u>12</u>	<u>1069</u>	<u>20</u>	<u>141</u>	<u>12</u>	<u>803</u>
P 6 <u>25</u>	Plugging Action	<u>15</u>	<u>1301</u>	<u>25</u>	<u>145</u>	<u>15</u>	<u>951</u>
P 7 <u>30</u>	<u>134</u>	<u>18</u>	<u>1569</u>	<u>30</u>	<u>147</u>	<u>18</u>	<u>1073</u>
P 8		<u>21</u>	<u>1776</u>	<u>35</u>	<u>150</u>	<u>21</u>	<u>1178</u>
P 9		<u>24</u>	<u>1928</u>	<u>40</u>	<u>153</u>	<u>24</u>	<u>1242</u>
P10		<u>27</u>	<u>2015</u>	<u>45</u>	<u>156</u>	<u>27</u>	<u>1295</u>
P11		<u>30</u>	<u>2074</u>	<u>50</u>	<u>160</u>	<u>30</u>	<u>1343</u>
P12		<u>33</u>	<u>2127</u>	<u>55</u>	<u>162</u>	<u>33</u>	<u>1389</u>
P13		<u>36</u>	<u>2156</u>	<u>60</u>	<u>164</u>	<u>36</u>	<u>1435</u>
P14		<u>39</u>	<u>2177</u>	<u>65</u>	<u>168</u>	<u>39</u>	<u>1473</u>
P15		<u>42</u>	<u>2192</u>	<u>70</u>	<u>171</u>	<u>42</u>	<u>1498</u>
P16		<u>45</u>	<u>2207</u>	<u>75</u>	<u>173</u>	<u>45</u>	<u>1521</u>
P17		<u>48</u>	<u>2219</u>	<u>80</u>	<u>176</u>	<u>48</u>	<u>1552</u>
P18		<u>51</u>	<u>2232</u>	<u>85</u>	<u>178</u>	<u>51</u>	<u>1580</u>
P19		<u>54</u>	<u>2238</u>	<u>90</u>	<u>180</u>	<u>54</u>	<u>1608</u>
P20		<u>57</u>	<u>2240</u>			<u>57</u>	<u>1611</u>
						<u>60</u>	<u>1626</u>



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 22259

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

Formation MORROW Elevation 2542 K.P. Eff. Pay _____ Ft.

District PRATT Date 7-2-76 Customer Order No. _____

COMPANY NAME PICKRELL DRILLING CO.

ADDRESS LITWIN BLDG, SUITE 205 NON-MARKET WICHITA, KS

LEASE AND WELL NO. ARDEY 1-B COUNTY CLARK STATE KS Sec. 2 Twp. 31S Rge. 24W

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

Mail Charts To SAME Address _____ No. Copies Requested USUAL

Formation Test No. 2 O.K. X Misrun _____ Interval Tested From 5416 to 5460 Total Depth 5460

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

Top Packer Depth 5411 Ft. Size 6 3/4 Bottom Packer Depth 5416 Ft. Size 6 3/4

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

Tool Size 5 1/2 O.D. Tool Joint Size 4 1/2 F.H. Anchor Length 44 Ft. Size 5 1/2 O.D. Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5445 Ft. Clock No. 8474 Depth 5448 Ft. Clock No. 4763

Top Make KUSTER Cap. 4150 No. 2604 Inside _____ Outside _____ Bottom Make KUSTER Cap. KUSTER No. 3354 Inside _____ Outside _____

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

Time Set Packer 3:50 P. M.

Tool Open I.F.P. From 3:52 M. to 4:22 M. — Hr. 30 Min. From (B) 427 P.S.I. To (C) 700 P.S.I.

Tool Closed I.C.I.P. From 4:22 M. to 5:22 M. 1 Hr. — Min. (D) 1705 P.S.I. To (E) 1706 P.S.I.

Tool Open F.F.P. From 5:22 M. to 6:52 M. 1 Hr. 30 Min. From (E) 815 P.S.I. To (F) 1296 P.S.I.

Tool Closed F.C.I.P. From 6:52 M. to 8:22 M. 1 Hr. 30 Min. (G) 1695 P.S.I. To (H) 1702 P.S.I.

Initial Hydrostatic Pressure (A) 2866 P.S.I. Final Hydrostatic Pressure (H) 2866 P.S.I. Maximum Temp. 128

INFORMATION

BLOW STRONG BLOW - FLOWED OIL IN 75 MINUTES

GAS TO SURFACE IN 13 MINUTES

Did Well Flow X Yes _____ No _____ Recovery Total Ft. FLOWED OIL IN 75 MINUTES ON

SECOND OPENING 42° Flowing

Reversed Out X Yes _____ No _____ Mud Type STARCH Viscosity 51 Weight 9.6 Water Loss 14 cc. Chlorides 52,000

EXTRA EQUIPMENT: Type Circ. Sub. PIN Safety Joint _____ Jars: Size 4 1/2 O.D. In. Make WTC Ser. No. 404

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

DRILLING CONTRACTOR GO TOOLS Length Drill Pipe 5203 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 K.H. In.

Length Weight Pipe _____ ft. I.D. Weight Pipe _____ In. Tool Joint Size _____ In. Length Drill Collars 186 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 490 In. Length D.S.T. Tool 71 ft.

Remarks _____

INVOICE SECTION

Open Hole Test	\$ <u>425.00</u>
Straddle Test	\$ _____
Jars	\$ <u>165.00</u>
Selective Zone	\$ _____
Safety Joint	\$ _____
Misrun	\$ _____
Evaluation	\$ _____
Packer	\$ _____
Circ. Sub.	\$ <u>20.00</u>
Total	\$ <u>610.00</u>

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 Orad Rine
Signature of Customer or his
Authorized Representative

Western Representative Bill Sager
Operator's Time _____ Hrs.

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

No 345

Date 7-2-76 Ticket 22259 Company PICKRELL DRUG CO.
Well Name and No. ARDREX #1-B Dst No. 2 Interval Tested 5416-5460
County CLARK State KS Sec. 2 Twp. 31 S Rg. 24 W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
GAL TO SURFACE 13 MINUTES						
4:12 P.	20	36				155,000 CFTPD.
4:17	25	20				115,000
4:22	30	20				115,000
SECOND FLOW						
TOOL OPEN 5:22 PM						
5:32	10	60				200,000 CFTPD
5:32-6:02 Surging unable to gauge						
		1/4" plate				
6:12	50	10				5,320
6:22	50	20				7,500
6:27	65	22				2,880
6:32	70	16				6,720
6:37	75	12				5,860

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 7-2-76 Test Ticket No. 22259
 Recorder No. 2604 Capacity 4150 Location 5445 F
 Clock No. 8474 Elevation 2542 M Well Temperature 128 °
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 2909 P.S.I. Open Tool 3:50 P M.
 B First Initial Flow Pressure 440 P.S.I. First Flow Pressure 30 Mins. 30 Min
 C First Final Flow Pressure 730 P.S.I. Initial Closed-in Pressure 60 Mins. 60 Min
 D Initial Closed-in Pressure 1706 P.S.I. Second Flow Pressure 90 Mins. 95 Min
 E Second Initial Flow Pressure 832 P.S.I. Final Closed-in Pressure 90 Mins. 90 Min
 F Second Final Flow Pressure 1318 P.S.I.
 G Final Closed-in Pressure 1702 P.S.I.
 H Final Hydrostatic Mud 2888 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>19</u> Inc.		Breakdown: <u>30</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 0	440	0	730	0	832	0	1318
P 2 5	491	3	1611	5	841	3	1653
P 3 10	519	6	1641	10	880	6	1666
P 4 15	561	9	1655	15	939	9	1674
P 5 20	611	12	1666	20	973	12	1679
P 6 25	678	15	1672	25	1027	15	1683
P 7 30	730	18	1679	30	1084	18	1685
P 8 35		21	1683	35	1142	21	1687
P 9 40	63	24	1687	40	1182	24	1688
P 10 45	66	27	1689	45	1228	27	1689
P 11 50	69	30	1691	50	1263	30	1690
P 12 55	72	33	1695	55	1293	33	1691
P 13 60	75	36	1696	60	1322	36	1691
P 14	78	39	1697	65	1345	39	1692
P 15	81	42	1698	70	1366	42	1693
P 16	84	45	1699	75	1380	45	1693
P 17	87	48	1702	80	1389	48	1694
P 18	90	51	1703	85	1368	51	1695
P 19		54	1704	90	1338	54	1695
P 20		57	1705	95	1318	57	1696
		60	1706			60	1696

1702²TC - 4





INC.

P. O. Box 1599
Wichita, Kansas 67201

Company Pickrell Drilling Company Lease & Well No. Ardrey 1-B
Elevation 2542 Kelly Bushing Formation Morrow Effective Pay - Ft. Ticket No. 22259
Date 7/2/76 Sec. 2 Twp. 31S Range 24W County Clark State Kansas
Test Approved by Brad Rine Western Representative Bill Hager
Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 5416' to 5460' Total Depth 5460'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 5411 Ft. Size 6 3/4 Bottom Packer Depth 5416 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 44 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 5445 Ft. Clock No. 8474 Depth 5448 Ft. Clock No. 4763
Top Make Kuster Cap. 4150 No. 2604 ~~XXXX~~ ^{Inside} Bottom Make Kuster Cap. Kuster No. 3354 ~~XXXX~~ ^{Outside}
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ ^{Inside} Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ ^{Outside}
Time Set Packer 3:50 P M
Tool Open I.F.P. From 3:52P M. to 4:22P M. ☐ Hr. 30 Min. From (B) 427 P.S.I. To (C) 700 P.S.I.
Tool Closed I.C.I.P. From 4:22P M. to 5:22P M. 1 Hr. ☐ Min (D) 1705 P.S.I.
Tool Open F.F.P. From 5:22P M. to 6:52P M. 1 Hr. 30 Min. From (E) 815 P.S.I. To (F) 1296 P.S.I.
Tool Closed F.C.I.P. From 6:52P M. to 8:22P M. 1 Hr. 30 Min. (G) 1695 P.S.I.
Initial Hydrostatic Pressure (A) 2866 P.S.I. Final Hydrostatic Pressure (H) 2866 P.S.I. Maximum Temp. 128

INFORMATION

BLOW Strong blow- flowed oil in 75 minutes. gas to surface in 13 minutes.

Did Well Flow ☒ Yes ☐ No Recovery Total Ft. Flowed oil in 75 minutes on second opening 42° gravity

Reversed Out ☒ Yes ☐ No Mud Type starch Viscosity 51 Weight 9.6 Water Loss 14 cc. Chlorides 52,000

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint ☐ Jars: Size 4 1/2 OD In. Make WTC Ser. No. 404

Dual Packer ☒ Yes Did Packers Hold? ☒ Yes Did Tool Plug? ☐ No Where? ☐

DRILLING CONTRACTOR Co Tools Length Drill Pipe? 5203 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 186 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 490n Length D.S.T. Tool 71 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 7/2/76 Recorder No. 2604 Capacity 4150 Test Ticket No. 22259
 Clock No. 8474 Elevation 2542 Kelly Bushing Location 5445 Ft. Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2909	P.S.I.	3:50 P M	
B First Initial Flow Pressure	440	P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	730	P.S.I.	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1706	P.S.I.	90 Mins.	95 Mins.
E Second Initial Flow Pressure	832	P.S.I.	90 Mins.	90 Mins.
F Second Final Flow Pressure	1318	P.S.I.		
G Final Closed-in Pressure	1702	P.S.I.		
H Final Hydrostatic Mud	2888	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>19</u> Inc.		Breakdown: <u>30</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 0	440	0	730	0	832	0	1318
P 2 5	491	3	1611	5	841	3	1653
P 3 10	519	6	1641	10	880	6	1666
P 4 15	561	9	1655	15	939	9	1674
P 5 20	611	12	1666	20	973	12	1679
P 6 25	678	15	1672	25	1027	15	1683
P 7 30	730	18	1679	30	1084	18	1685
P 8		21	1683	35	1142	21	1687
P 9		24	1687	40	1182	24	1688
P10		27	1689	45	1228	27	1689
P11		30	1691	50	1263	30	1690
P12		33	1695	55	1293	33	1691
P13		36	1696	60	1322	36	1691
P14		39	1697	65	1345	39	1692
P15		42	1698	70	1366	42	1693
P16		45	1700	75	1380	45	1693
P17		48	1702	80	1389	48	1694
P18		51	1703	85	1368	51	1695
P19		54	1704	90	1338	54	1695
P20		57	1705	95	1318	57	1696
		60	1706			60	1696

WESTERN TESTING CO., INC.

Pressure Data

Date 7/2/76

Test Ticket No. 22259

Recorder No. 2604 Capacity 4150 Location 5445 Ft.

Clock No. 8474 Elevation 2542 Kelly Bushing Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2909</u> P.S.I.	Open Tool	<u>3:50</u> P M	
B First Initial Flow Pressure	<u>440</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>730</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1706</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>95</u> Mins.
E Second Initial Flow Pressure	<u>832</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>1318</u> P.S.I.			
G Final Closed-in Pressure	<u>1702</u> P.S.I.			
H Final Hydrostatic Mud	<u>2888</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>20</u> Inc.		Breakdown: <u>19</u> Inc.		Breakdown: <u>30</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>63</u>	<u>1697</u>
P 2						<u>66</u>	<u>1697</u>
P 3						<u>69</u>	<u>1698</u>
P 4						<u>72</u>	<u>1699</u>
P 5						<u>75</u>	<u>1699</u>
P 6						<u>78</u>	<u>1700</u>
P 7						<u>81</u>	<u>1701</u>
P 8						<u>84</u>	<u>1701</u>
P 9						<u>87</u>	<u>1702</u>
P10						<u>90</u>	<u>1702</u>
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



INC.

P. O. Box 1599

Wichita, Kansas 67201

GAS FLOW REPORT

Date 7-2-76 Ticket 22259 Company Pickrell Drilling Company
Well Name and No. Ardrey #1-B Dst No. 2 Interval Tested 5416' - 5460'
County Clark State Kansas Sec. 2 Twp. 31S Rg. 24W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
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PRE FLOW

4:12PM	20 Min	36" of water	1" choke			155,000 C.F.P.D
4:17PM	25 Min.	20" of water	1" choke			115,000 C.F.P.D.
4:22PM	30 Min.	20" of water	1" choke			115,000 C.F.P.D.
Gas to surface in 13 minutes.						

SECOND FLOW

5:32PM	10 Min.	60" of water	1" choke			200,000 C.F.P.D
5:32PM	6:02PM	Surging unable to gauge				
6:12PM	50 Min.	10" of water	1/4" choke			5,320 C.F.P.D.
6:22PM	60Min.	20" of water	1/4" choke			7,500 C.F.P.D.
6:27PM	65 Min.	22" of water	1/4" choke			7,880 C.F.P.D.
6:32PM	70 Min.	16" of water	1/4" choke			6,720 C.F.P.D.
6:37PM	75 Min.	12" of water	1/4" choke			5,860 C.F.P.D

All measurements were taken with a 2" merla orifice well tester.

GAS BOTTLE

Serial No. - Date Bottle Filled 7-2-76 Date to be Invoiced 7-2-76

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Pickrell Drilling Company

Authorized by Brad Rine



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

22260

P. O. BOX 793

PHONE 793-7903

GREAT BEND, KANSAS

Formation MORROW Elevation 2542 Eff. Pay _____ Ft.District PRATT Date 7-3-76 Customer Order No. _____COMPANY NAME PICKRELL DRILLING CO. Drilling CompanyADDRESS LUTWYN BLDG. SUITE 205 110 MARKET WICHITA, KSLEASE AND WELL NO. ARDREY 1-B COUNTY CLARK STATE KANSAS Sec. 2 Twp. 31S Rge. 24WMail Inv. To _____ Co. Name SAME Address _____ No. Copies Requested USUALMail Charts To _____ Address _____ No. Copies Requested USUALFormation Test No. 3 O.K. X Misrun - Interval Tested From 5462' to 5475' Total Depth 5475'Size Main Hole 7 7/8 Rat Hole _____ Conv. X B.T. _____ Damaged - Yes X No Conv. X B.T. _____ Damaged - Yes X NoTop Packer Depth 5457 Ft. Size 6 3/4 Bottom Packer Depth 5462 Ft. Size 6 3/4

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

Tool Size 5 1/2 O.D. Tool Joint Size 4 1/2 F.H. Anchor Length 13 Ft. Size 5 1/2 O.D. Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.RECORDERS Depth 5466 Ft. Clock No. 8474 Depth 5469 Ft. Clock No. 4763Top Make KUSTER Cap. 4150 No. 2604 Inside _____ Outside _____ Bottom Make KUSTER Cap. 4200 No. 3354 Inside _____ Outside _____

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

Time Set Packer 315.3 P. M. 124Tool Open I.F.P. From 3:55 P.M. to 4:25 P.M. 1 Hr. 30 Min. From (B) 5:37 P.M. P.S.I. To (C) 106 P.S.I.Tool Closed I.C.I.P. From 4:25 P.M. to 5:25 P.M. 1 Hr. - Min. (D) 1737 P.S.I. To (E) 1748 P.S.I.Tool Open F.F.P. From 5:25 P.M. to 6:55 P.M. 1 Hr. 30 Min. From (E) 1381 P.S.I. To (F) 309 P.S.I.Tool Closed F.C.I.P. From 6:55 P.M. to 7:55 P.M. 1 Hr. - Min. (G) 1695 P.S.I. To (H) 1730 P.S.I.Initial Hydrostatic Pressure (A) 2877 P.S.I. Final Hydrostatic Pressure (H) 2877 P.S.I. Maximum Temp. 130BLOW STRONG BLOW THROUGH TEST. GAS TO SURFACE IN 20 MINUTESDid Well Flow - Yes X No Recovery Total Ft. 1200 ft. Froggy OilReversed Out X Yes - No Mud Type STARCH Viscosity 52 Weight 9.6 Water Loss 10.8 cc. Chlorides 54000 PPMEXTRA EQUIPMENT: Type Circ. Sub. PIN Safety Joint _____ Jars: Size 4 1/2 O.D. In. Make WTC Ser. No. 404Dual Packers YES Did Packers Hold? YES Did Tool Plug? NO Where? _____DRILLING CONTRACTOR Pickrell Drilling Co. Length Drill Pipe 5188 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 X 14Length Weight Pipe _____ ft. I.D. Weight Pipe _____ In. Tool Joint Size _____ In. Length Drill Collars 246 ft. I.D. Drill Collars 2 1/4 In.Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 41 ft.

Remarks _____

INVOICE SECTION

Open Hole Test	\$ <u>425.00</u>
Straddle Test	\$ _____
Jars	\$ <u>165.00</u>
Selective Zone	\$ _____
Safety Joint	\$ _____
Misrun	\$ _____
Evaluation	\$ _____
Packer	\$ _____
Circ. Sub.	\$ <u>20.00</u>
Total	\$ <u>610.00</u>

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 Rine
Signature of Customer or his
Authorized RepresentativeWestern Representative Bill Hager

Operator's Time _____ Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 7-3-76 Test Ticket No. 22260
 Recorder No. 2604 Capacity 4150 Location 5466
 Lock No. 8474 Elevation 2542 Well Temperature 130
 Point Pressure Time Given Time Computed
 Initial Hydrostatic Mud 2909 P.S.I. Open Tool 3153 P M
 First Initial Flow Pressure 72 P.S.I. First Flow Pressure 30 Mins. 30 Min
 First Final Flow Pressure 124 P.S.I. Initial Closed-in Pressure 60 Mins. 60 Min
 Initial Closed-in Pressure 1748 P.S.I. Second Flow Pressure 90 Mins. 95 Min
 Second Initial Flow Pressure 164 P.S.I. Final Closed-in Pressure 60 Mins. 60 Min
 Second Final Flow Pressure 286 P.S.I.
 Final Closed-in Pressure 1730 P.S.I.
 Final Hydrostatic Mud 2835 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: 19 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 20 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>72</u>	0	<u>124</u>	0	<u>164</u>	0	<u>286</u>
P 2 5	<u>64</u>	3	<u>459</u>	5	<u>143</u>	3	<u>586</u>
P 3 10	<u>66</u>	6	<u>1683</u>	10	<u>155</u>	6	<u>1664</u>
P 4 15	<u>68</u>	9	<u>1704</u>	15	<u>177</u>	9	<u>1693</u>
P 5 20	<u>79</u>	12	<u>1714</u>	20	<u>203</u>	12	<u>1706</u>
P 6 25	<u>102</u>	15	<u>1721</u>	25	<u>220</u>	15	<u>1714</u>
P 7 30	<u>124</u>	18	<u>Plugging Action</u>	30	<u>241</u>	18	<u>1718</u>
P 8 35		21	<u>" "</u>	35	<u>252</u>	21	<u>1721</u>
P 9 40		24	<u>1744</u>	40	<u>271</u>	24	<u>1725</u>
P 10 45		27	<u>Plugging Action</u>	45	<u>269</u>	27	<u>1726</u>
P 11 50		30	<u>" "</u>	50	<u>262</u>	30	<u>1727</u>
P 12 55		33	<u>1744</u>	55	<u>250</u>	33	<u>1727</u>
P 13 60		36	<u>Plugging Action</u>	60	<u>252</u>	36	<u>1727</u>
P 14		39	<u>" "</u>	65	<u>256</u>	39	<u>1728</u>
P 15		42	<u>" "</u>	70	<u>256</u>	42	<u>1728</u>
P 16		45	<u>" "</u>	75	<u>265</u>	45	<u>1728</u>
P 17		48	<u>1748</u>	80	<u>271</u>	48	<u>1729</u>
P 18		51	<u>Plugging Action</u>	85	<u>272</u>	51	<u>1729</u>
P 19		54	<u>" "</u>	90	<u>284</u>	54	<u>1729</u>
P 20		57	<u>" "</u>	95	<u>286</u>	57	<u>1730</u>
		60				60	<u>1730</u>

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Nº 344

Date 7-3-76 Ticket 22260 Company PICKRELL DRILLING CO.
Well Name and No. ARDREX 1-B Dst No. 3 Interval Tested 5462-5475
County CLARK State KS Sec. 2 Twp. 31 S Rg. 24 W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pilot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
TOOK OPEN 3:55 P.M. PRE FLOW						
GAS TO SURFACE IN 20 MINUTES 1/4 Rate						
4:20	25	30	{	{	{	9,200 C.F.T.D.
4:25	30	66				13,600 "

TOOK OPEN 5:25 1/2 Rate SECOND FLOW						
5:35	10	40	{	{	{	39,600 C.F.T.D.
5:45	20	18				26,600
5:55	30	10				19,900
6:05	40	8				17,200
6:15	50	22				29,400
6:25	60	26				31,900
6:35	70	30				34,300
6:45	80	20				28,000
6:55	90	24				30,700

GAS BOTTLE

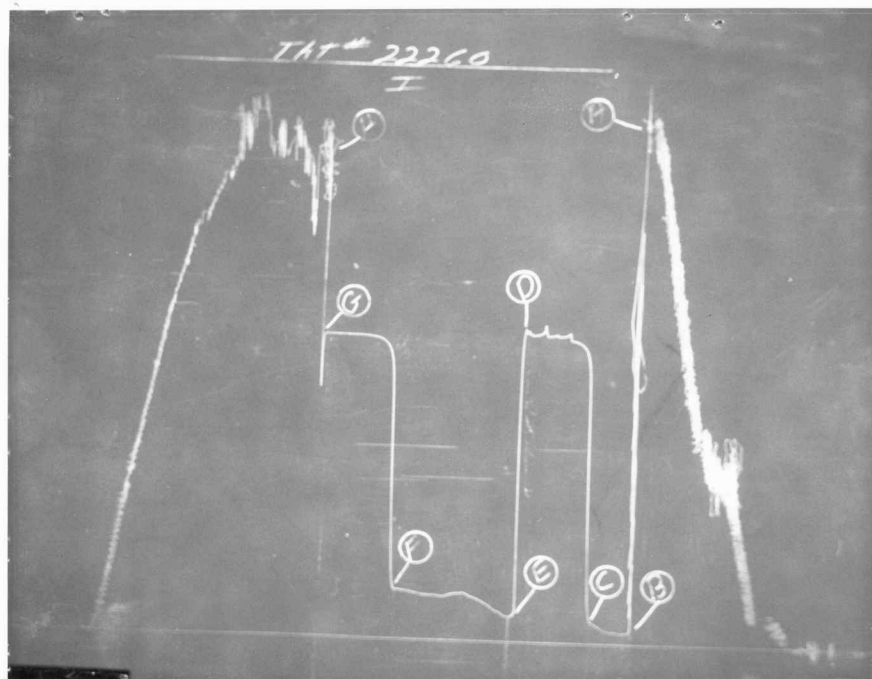
Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____





INC.

P. O. Box 1599
Wichita, Kansas 67201

Company Pickrell Drilling Company Lease & Well No. Andrey #1-B
Elevation 2542 Formation Morrow Effective Pay - Ft. Ticket No. 22260
Date 7-3-76 Sec. 2 Twp. 31S Range 24W County Clark State Kansas
Test Approved by Brad Rine Western Representative Bill Hager
Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 5462' to 5475' Total Depth 5475'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 5457 Ft. Size 6 3/4 Bottom Packer Depth 5462 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 13 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 5466 Ft. Clock No. 8474 Depth 5469 Ft. Clock No. 4763
Top Make Kuster Cap. 4150 No. 2604 Inside Outside Bottom Make Kuster Cap. 4200 No. 3354 Inside Outside
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside Outside Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Inside Outside
Time Set Packer 3:53 P M
Tool Open I.F.P. From 3:55 P.M. to 4:25 P.M. - Hr. 30 Min. From (B) 72 P.S.I. To (C) 124 P.S.I.
Tool Closed I.C.I.P. From 4:25 P.M. to 5:25 P.M. 1 Hr. - Min (D) 1748 P.S.I.
Tool Open F.F.P. From 5:25 P.M. to 6:55 P.M. 1 Hr. 30 Min. From (E) 164 P.S.I. To (F) 286 P.S.I.
Tool Closed F.C.I.P. From 6:55 P.M. to 7:55 P.M. 1 Hr. - Min. (G) 1730 P.S.I.
Initial Hydrostatic Pressure (A) 2909 P.S.I. Final Hydrostatic Pressure (H) 2835 P.S.I. Maximum Temp. 130

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 20 minutes.Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 1200' froggy oil

Reversed Out - Yes ☒ No ☐ Mud Type starch Viscosity 52 Weight 9.6 Water Loss 10.8 cc. Chlorides 54,000 P.P.M.
EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint ☐ Jars: Size 4 1/2 OD In. Make WTC Ser. No. 404
Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -
DRILLING CONTRACTOR Pickrell Drllg. Co. Length Drill Pipe? 5188 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 246 Ft. I.D. Drill Collars 2 1/4 In.
Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 41 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 7-3-76

Test Ticket No. 22260

Recorder No. 2604 Capacity 4150 Location 5466 Ft.

Clock No. 8474 Elevation 2542 Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2909</u> P.S.I.	Open Tool	<u>3:53</u> P M	
B First Initial Flow Pressure	<u>72</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>124</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1748</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>95</u> Mins.
E Second Initial Flow Pressure	<u>164</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>286</u> P.S.I.			
G Final Closed-in Pressure	<u>1730</u> P.S.I.			
H Final Hydrostatic Mud	<u>2835</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>19</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>72</u>	<u>0</u>	<u>124</u>	<u>0</u>	<u>164</u>	<u>0</u>	<u>286</u>
P 2 <u>5</u>	<u>64</u>	<u>3</u>	<u>459</u>	<u>5</u>	<u>143</u>	<u>3</u>	<u>586</u>
P 3 <u>10</u>	<u>66</u>	<u>6</u>	<u>1683</u>	<u>10</u>	<u>155</u>	<u>6</u>	<u>1664</u>
P 4 <u>15</u>	<u>68</u>	<u>9</u>	<u>1704</u>	<u>15</u>	<u>177</u>	<u>9</u>	<u>1693</u>
P 5 <u>20</u>	<u>79</u>	<u>12</u>	<u>1714</u>	<u>20</u>	<u>203</u>	<u>12</u>	<u>1706</u>
P 6 <u>25</u>	<u>102</u>	<u>15</u>	<u>1721</u>	<u>25</u>	<u>220</u>	<u>15</u>	<u>1714</u>
P 7 <u>30</u>	<u>124</u>	<u>18</u>	plugging action	<u>30</u>	<u>241</u>	<u>18</u>	<u>1718</u>
P 8		<u>21</u>	plugging action	<u>35</u>	<u>252</u>	<u>21</u>	<u>1721</u>
P 9		<u>24</u>	<u>1744</u>	<u>40</u>	<u>271</u>	<u>24</u>	<u>1725</u>
P10		<u>27</u>	plugging action	<u>45</u>	<u>269</u>	<u>27</u>	<u>1726</u>
P11		<u>30</u>	plugging action	<u>50</u>	<u>262</u>	<u>30</u>	<u>1727</u>
P12		<u>33</u>	<u>1744</u>	<u>55</u>	<u>250</u>	<u>33</u>	<u>1727</u>
P13		<u>36</u>	plugging action	<u>60</u>	<u>252</u>	<u>36</u>	<u>1727</u>
P14		<u>39</u>	plugging action	<u>65</u>	<u>256</u>	<u>39</u>	<u>1728</u>
P15		<u>42</u>	plugging action	<u>70</u>	<u>256</u>	<u>42</u>	<u>1728</u>
P16		<u>45</u>	plugging action	<u>75</u>	<u>265</u>	<u>45</u>	<u>1728</u>
P17		<u>48</u>	<u>1748</u>	<u>80</u>	<u>271</u>	<u>48</u>	<u>1729</u>
P18		<u>51</u>	plugging action	<u>85</u>	<u>277</u>	<u>51</u>	<u>1729</u>
P19		<u>54</u>	plugging action	<u>90</u>	<u>284</u>	<u>54</u>	<u>1729</u>
P20		<u>57</u>	plugging action	<u>95</u>	<u>286</u>	<u>57</u>	<u>1730</u>
		<u>60</u>	plugging action			<u>60</u>	<u>1730</u>

Phone 316 262-5861
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P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 7-3-76 Ticket 22260 Company Pickrell Drilling Company
Well Name and No. Ardrey #1-B Dst No. 3 Interval Tested 5462' - 5475'
County Clark State Kansas Sec. 2 Twp. 31S Rg. 24W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
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PRE FLOW

4:20 PM	25 min.	30" of water	1/4" choke			9,200 C.F.P.D.
4:25 PM	30 min.	66" of water	1/4" choke			13,600 C.F.P.D.
Gas to surface in 20 minutes. Tool opened at 3:55Pm						

SECOND FLOW

5:35PM	10 min.	40" of water	1/2" choke			39,600 C.F.P.D.
5:45PM	20 min.	18" of water	1/2" choke			26,600 C.F.P.D.
5:55PM	30 min.	10" of water	1/2" choke			19,900 C.F.P.D.
6:05PM	40 min.	8" of water	1/2" choke			17,200 C.F.P.D.
6:15PM	50 min.	22" of water	1/2" choke			29,400 C.F.P.D.
6:25 PM	60 min.	26" of water	1/2" choke			31,900 C.F.P.D.
6:35 PM	70 min.	30" of water	1/2" choke			34,300 C.F.P.D.
6:45 PM	80 min.	20" of water	1/2" choke			28,000 C.F.P.D.
6:55 PM	90 min.	24" of water	1/2" choke			30,700 C.F.P.D.
All measurements were taken with a 2" merla orifice well tester.						

GAS BOTTLE

Serial No. _____ Date Bottle Filled 7-3-76 Date to be Invoiced 7-3-76

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Pickrell Drilling Company

Authorized by Brad Rine