



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

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No. 4124

Elevation 2366 KB Formation Topeka Eff. Pay ✓ Ft.

District Wakeeney Date 8-22-80 Customer Order No. ✓
COMPANY NAME A. Scott Ritchie
ADDRESS Suite 950, 125 N. Market, Wichita, Ks. 67202
LEASE AND WELL NO. Pearson #1 COUNTY Trego STATE Ks. Sec. 11 Twp 12S Rge 22W
Mail Invoice To Same No. Copies Requested 5
Co. Name 11 Address _____
Mail Charts To _____ No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3563 ft. to 3570 ft. Total Depth 3570 ft.
Packer Depth 3563 ft. Size 6 3/4 in. Packer Depth ✓ ft. Size ✓ in.
Packer Depth ✓ ft. Size ✓ in. Packer Depth ✓ ft. Size ✓ in.
Depth of Selective Zone Set ✓

Top Recorder Depth (Inside) 3565 ft. Recorder Number 4331 Cap. 4150
Bottom Recorder Depth (Outside) 3568 ft. Recorder Number 13240 Cap. 4500
Below Straddle Recorder Depth ✓ ft. Recorder Number ✓ Cap. ✓

Drilling Contractor Murfin Ris 15 Drill Collar Length 90' I. D. 2.25 in.
Mud Type Starch Viscosity 36 Weight Pipe Length 973 I. D. 2.76 in.
Weight 9.5 Water Loss 14.2 cc. Drill Pipe Length 2405' I. D. 3.8 in.
Chlorides 56,000 P.P.M. Test Tool Length 75' ft. Tool Size 5 1/2 in.
Jars: Make None Serial Number 5 Anchor Length 17' ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 FN in.

Blow: Fair Blow Through out Both Openings

Recovered 250 ft. of Muddy water
Recovered 1 ft. of Oil
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: _____

RECORDED
AUG 25 1980

Time Set Packer(s) 7:05 A.M. Time Started Off Bottom 9:05 A.M. Maximum Temperature 110°
Initial Hydrostatic Pressure _____ (A) 1994 P.S.I.
Initial Flow Period _____ Minutes (B) 76 P.S.I. to (C) 109 P.S.I.
Initial Closed In Period _____ Minutes (D) 1147 P.S.I.
Final Flow Period _____ Minutes (E) 142 P.S.I. to (F) 175 P.S.I.
Final Closed In Period _____ Minutes (G) 1126 P.S.I.
Final Hydrostatic Pressure _____ (H) 1920 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 Steve Michollich

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage 30 miles 2150
Fluid Sampler \$ _____
Extra Charts \$ _____
TOTAL \$ 572.50

WESTERN TESTING CO., INC.

Pressure Data

Date 8-22-80 Test Ticket No. 4124
 Recorder No. 4331 Capacity 4150 Location 3565 Ft.
 Clock No. _____ Elevation 2366 KB Well Temperature 110 °F

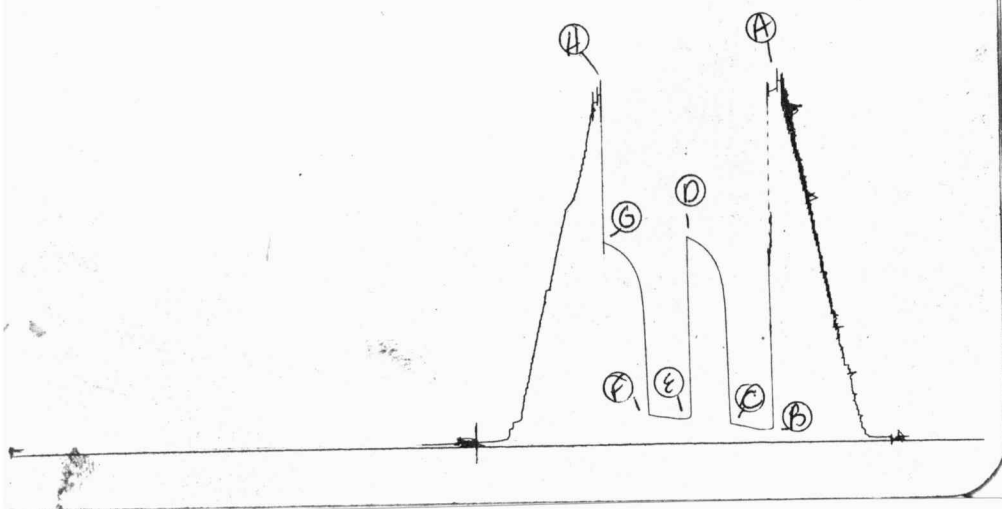
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1985</u>	P.S.I.	<u>7:05</u>	M
B First Initial Flow Pressure	<u>84</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>114</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
D Initial Closed-in Pressure	<u>1150</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
E Second Initial Flow Pressure	<u>153</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
F Second Final Flow Pressure	<u>170</u>	P.S.I.	<u>30</u>	Mins. <u>33</u> Mins.
G Final Closed-in Pressure	<u>1126</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1924</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>6</u> Inc.		Breakdown: <u>11</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>84</u>	0	<u>114</u>	0	<u>153</u>	0	<u>170</u>
P 2	<u>80</u>	3	<u>931</u>	5	<u>145</u>	3	<u>685</u>
P 3	<u>80</u>	6	<u>918</u>	10	<u>147</u>	6	<u>877</u>
P 4	<u>91</u>	9	<u>985</u>	15	<u>154</u>	9	<u>959</u>
P 5	<u>99</u>	12	<u>1032</u>	20	<u>158</u>	12	<u>1002</u>
P 6	<u>106</u>	15	<u>1060</u>	25	<u>165</u>	15	<u>1032</u>
P 7	<u>114</u>	18	<u>1089</u>	30	<u>170</u>	18	<u>1059</u>
P 8		21	<u>1106</u>	35		21	<u>1077</u>
P 9		24	<u>1120</u>	40		24	<u>1094</u>
P10		27	<u>1136</u>	45		27	<u>1106</u>
P11		30	<u>1150</u>	50		30	<u>1117</u>
P12		33		55		33	<u>1126</u>
P13		36		60		36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

JKT # 4124
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4124



Company A. Scott Ritchie Lease & Well No. Pearson #1
 Elevation 2366 Kelly Bushing Formation Topeka Effective Pay ----- Ft. Ticket No. 4124
 Date 8-22-80 Sec. 11 Twp. 12 S Range 22 W County Trego State KS
 Test Approved by Roger ? Western Representative Steve Michellich
 Formation Test No. 1 Interval Tested from 3563 ft. to 3570 ft. Total Depth 3570 ft.
 Packer Depth 3563 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.
 Packer Depth ----- ft. Size ----- in. Packer Depth ----- ft. Size ----- in.
 Depth of Selective Zone Set -----
 Top Recorder Depth (Inside) 3565 ft. Recorder Number 4331 Cap. 4150
 Bottom Recorder Depth (Outside) 3568 ft. Recorder Number 13240 Cap. 4500
 Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. ---
 Drilling Contractor Murfin Drilling Rig #15 Drill Collar Length 90 I. D. 2.25 in.
 Mud Type Starch Viscosity 36 Weight Pipe Length 973 I. D. 2.76 in.
 Weight 9.5 Water Loss 14.2 cc. Drill Pipe Length 2405 I. D. 3.8 in.
 Chlorides 56,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in.
 Jars: Make NONE Serial Number ---- Anchor Length 17 ft. Size 5 1/2 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 FH in.

Blow: Fair blow throughout both flow periods.

Recovered 250 ft. of Muddy water.

Recovered 1 ft. of Oil.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set	Packer(s)	<u>7:05</u> <u>A.M.</u>	Time Started Off Bottom	<u>9:05</u> <u>A.M.</u>	Maximum Temperature	<u>110°</u> F.
		<u>P.M.</u>		<u>P.M.</u>		
Initial Hydrostatic Pressure			(A)	<u>1985</u>	<u>P.S.I.</u>	
Initial Flow Period	Minutes	<u>30</u>	(B)	<u>84</u>	<u>P.S.I. to (C)</u>	<u>114</u> <u>P.S.I.</u>
Initial Closed In Period	Minutes	<u>30</u>	(D)	<u>1150</u>	<u>P.S.I.</u>	
Final Flow Period	Minutes	<u>30</u>	(E)	<u>153</u>	<u>P.S.I. to (F)</u>	<u>170</u> <u>P.S.I.</u>
Final Closed In Period	Minutes	<u>33</u>	(G)	<u>1126</u>	<u>P.S.I.</u>	
Final Hydrostatic Pressure			(H)	<u>1924</u>	<u>P.S.I.</u>	

WESTERN TESTING CO., INC.

Pressure Data

Date 8-22-80 Test Ticket No. 4124
 Recorder No. 4331 Capacity 4150 Location 3565 Ft.
 Clock No. ----- Elevation 2366 Kelly Bushing Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1985 P.S.I.	Open Tool	7:05 M	
B First Initial Flow Pressure	84 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	114 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1150 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	153 P.S.I.	Final Closed-in Pressure	30 Mins.	33 Mins.
F Second Final Flow Pressure	170 P.S.I.			
G Final Closed-in Pressure	1126 P.S.I.			
H Final Hydrostatic Mud	1924 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>6</u> Inc.		Breakdown: <u>11</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>84</u>	<u>0</u>	<u>114</u>	<u>0</u>	<u>153</u>	<u>0</u>	<u>170</u>
P 2 <u>5</u>	<u>80</u>	<u>3</u>	<u>731</u>	<u>5</u>	<u>145</u>	<u>3</u>	<u>685</u>
P 3 <u>10</u>	<u>80</u>	<u>6</u>	<u>918</u>	<u>10</u>	<u>147</u>	<u>6</u>	<u>877</u>
P 4 <u>15</u>	<u>91</u>	<u>9</u>	<u>985</u>	<u>15</u>	<u>154</u>	<u>9</u>	<u>959</u>
P 5 <u>20</u>	<u>99</u>	<u>12</u>	<u>1032</u>	<u>20</u>	<u>158</u>	<u>12</u>	<u>1002</u>
P 6 <u>25</u>	<u>106</u>	<u>15</u>	<u>1060</u>	<u>25</u>	<u>165</u>	<u>15</u>	<u>1032</u>
P 7 <u>30</u>	<u>114</u>	<u>18</u>	<u>1089</u>	<u>30</u>	<u>170</u>	<u>18</u>	<u>1059</u>
P 8		<u>21</u>	<u>1106</u>			<u>21</u>	<u>1077</u>
P 9		<u>24</u>	<u>1120</u>			<u>24</u>	<u>1094</u>
P10		<u>27</u>	<u>1136</u>			<u>27</u>	<u>1106</u>
P11		<u>30</u>	<u>1150</u>			<u>30</u>	<u>1117</u>
P12						<u>33</u>	<u>1126</u>
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



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

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N° 4125

Elevation 2366 KB Formation Toronto & K.C. Eff. Pay Ft.

District Wakarusa Date 8-23-80 Customer Order No.
COMPANY NAME A. Scott Ritchie
ADDRESS Suite 950, 125 N. Market, Wichita, Ks. 67672
LEASE AND WELL NO. Pearson #1 COUNTY Trego STATE Ks Sec. 11 Twp. 12s Rge. 22w
Mail Invoice To Same Co. Name Address No. Copies Requested 5
Mail Charts To Co. Name Address No. Copies Requested 5

Formation Test No. 2 Interval Tested from 3609 ft. to 3675 ft. Total Depth 3675 ft.
Packer Depth 3609 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth ft. Size in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 3612 ft. Recorder Number 4331 Cap. 4150
Bottom Recorder Depth (Outside) 3615 ft. Recorder Number 13240 Cap. 4500
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Murphy Rig IS Drill Collar Length 90' I. D. 2.25 in.
Mud Type 59400 Viscosity 43 Weight Pipe Length 973' I. D. 2.76 in.
Weight 9.7 Water Loss 13.8 cc. Drill Pipe Length 2532 I. D. 3.8 in.
Chlorides 43,600 P.P.M. Test Tool Length 151 ft. Tool Size 5 1/2 in.
Jars: Make None Serial Number Anchor Length 66' ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 FH in.

Blow: 1st Operator Fair Blow Increasing To Strong Blow off Bottom of
Bucket in 8 min. 2nd Operator Fair Blow

Recovered 62' ft. of Oil Specked Mud
Recovered 62' ft. of Oil cut Mud
Recovered 62' ft. of Oil cut Mud
Recovered 124' ft. of Mud cut Oil
Recovered 372' ft. of Mud cut Oil
Remarks: 682 Total Fluid (All Fluid was Gassy) OK

Time Set Packer(s) 2:15 A.M. Time Started Off Bottom 4:15 A.M. Maximum Temperature 111°
Initial Hydrostatic Pressure 2057 P.S.I.
Initial Flow Period 30 Minutes (B) 87 P.S.I. to (C) 218 P.S.I.
Initial Closed In Period 30 Minutes (D) 1136 P.S.I.
Final Flow Period 30 Minutes (E) 251 P.S.I. to (F) 317 P.S.I.
Final Closed In Period 30 Minutes (G) 1104 P.S.I.
Final Hydrostatic Pressure 1994 P.S.I. (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. 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 Steve Mitchell
Signature of Customer or his authorized representative

Western Representative Steve Mitchell

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$ 110
Fluid Sampler \$
Extra Charts \$

TOTAL

\$ 550.00

WESTERN TESTING CO., INC.

Pressure Data

Date 8-23-80 Recorder No. 4331 Capacity 4150 Location 3612 Ft.
 Clock No. _____ Elevation 2366 KB Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2092</u> P.S.I.	Open Tool	<u>2:15</u> P	M
B First Initial Flow Pressure	<u>92</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>218</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1138</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>262</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>311</u> P.S.I.			
G Final Closed-in Pressure	<u>1111</u> P.S.I.			
H Final Hydrostatic Mud	<u>1983</u> P.S.I.			

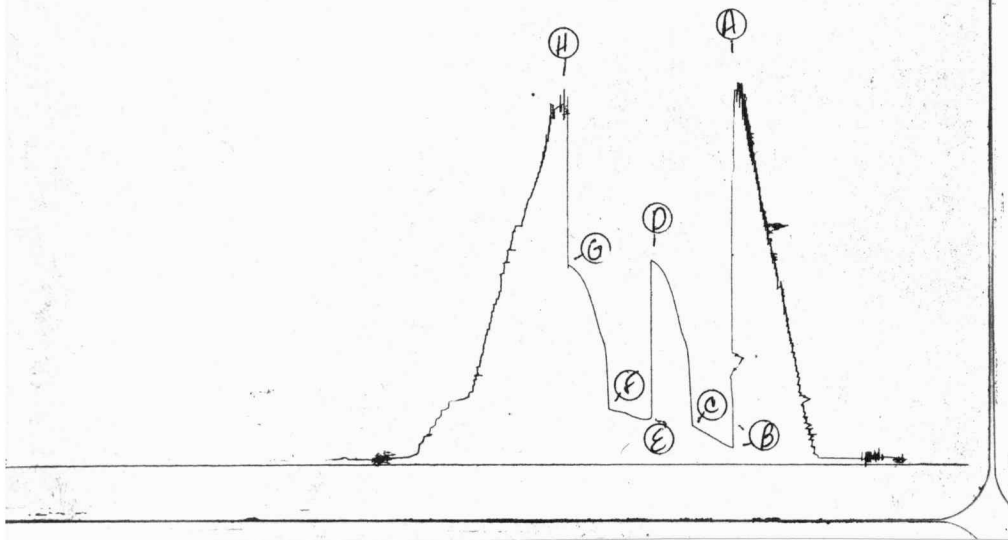
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>10</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	<u>92</u>	0	<u>218</u>	0	<u>262</u>	0	<u>311</u>
P 2 5	<u>114</u>	3	<u>569</u>	5	<u>258</u>	3	<u>647</u>
P 3 10	<u>134</u>	6	<u>687</u>	10	<u>264</u>	6	<u>718</u>
P 4 15	<u>158</u>	9	<u>739</u>	15	<u>279</u>	9	<u>793</u>
P 5 20	<u>179</u>	12	<u>841</u>	20	<u>296</u>	12	<u>865</u>
P 6 25	<u>201</u>	15	<u>925</u>	25	<u>302</u>	15	<u>933</u>
P 7 30	<u>218</u>	18	<u>987</u>	30	<u>311</u>	18	<u>994</u>
P 8 35		21	<u>1043</u>	35		21	<u>1038</u>
P 9 40		24	<u>1077</u>	40		24	<u>1070</u>
P 10 45		27	<u>1106</u>	45		27	<u>1094</u>
P 11 50		30	<u>1138</u>	50		30	<u>1111</u>
P 12 55		33		55		33	
P 13 60		36		60		36	
P 14		39		65		39	
P 15		42		70		42	
P 16		45		75		45	
P 17		48		80		48	
P 18		51		85		51	
P 19		54		90		54	
P 20		57				57	
		60				60	

JKT # 4125

4125

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Company A. Scott Ritchie Lease & Well No. Pearson #1
Elevation 2366 Kelly Bushing Formation Toronto & Kansas City Effective Pay ----- Ft. Ticket No. 4125
Date 8-23-80 Sec. 11 Twp. 12 S Range 22 W County Trego State KS
Test Approved by Roger ? Western Representative Steve Michellich

Formation Test No. 2 Interval Tested from 3609 ft. to 3675 ft. Total Depth 3675 ft.

Packer Depth 3609 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.

Packer Depth ----- ft. Size ----- in. Packer Depth ----- ft. Size ----- in.

Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 3612 ft. Recorder Number 4331 Cap. 4150

Bottom Recorder Depth (Outside) 3615 ft. Recorder Number 13240 Cap. 4500

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

Drilling Contractor Murfin Drilling Rig #15 Drill Collar Length 90 I. D. 2.25 in.

Mud Type Starch Viscosity 43 Weight Pipe Length 973 I. D. 2.76 in.

Weight 9.7 Water Loss 13.8 cc. Drill Pipe Length 2532 I. D. 3.8 in.

Chlorides 43,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in.

Jars: Make NONE Serial Number ----- Anchor Length 66 ft. Size 5 1/2 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 FH in.

Blow: Initial flow period; fair blow increasing to strong blow off bottom of bucket in eight minutes. Final flow period, fair blow throughout.

Recovered 62 ft. of Oil specked mud.

Recovered 62 ft. of Oil cut mud (20% oil, 80% mud)

Recovered 62 ft. of Oil cut mud (45% oil, 55% mud)

Recovered 124 ft. of Mud cut oil (80% oil, 20% mud)

Recovered 372 ft. of Mud cut oil (90% oil, 10% mud)

Remarks: All fluid was gassy.

Time Set Packer(s) 2:15 ~~###~~ P.M. Time Started Off Bottom 4:15 A.M. P.M. Maximum Temperature 111⁰ F.

Initial Hydrostatic Pressure (A) 2092 P.S.I.

Initial Flow Period Minutes 30 (B) 92 P.S.I. to (C) 218 P.S.I.

Initial Closed In Period Minutes 30 (D) 1138 P.S.I.

Final Flow Period Minutes 30 (E) 262 P.S.I. to (F) 311 P.S.I.

Final Closed In Period Minutes 30 (G) 1111 P.S.I.

Final Hydrostatic Pressure (H) 1983 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8-23-80 Test Ticket No. 4125
 Recorder No. 4331 Capacity 4150 Location 3612 Ft.
 Clock No. ----- Elevation 2366 Kelly Bushing Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2092</u> P.S.I.	Open Tool	<u>2:15</u> P M	
B First Initial Flow Pressure	<u>92</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>218</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1138</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>262</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>311</u> P.S.I.			
G Final Closed-in Pressure	<u>1111</u> P.S.I.			
H Final Hydrostatic Mud	<u>1983</u> P.S.I.			

PRESSURE BREAKDOWN

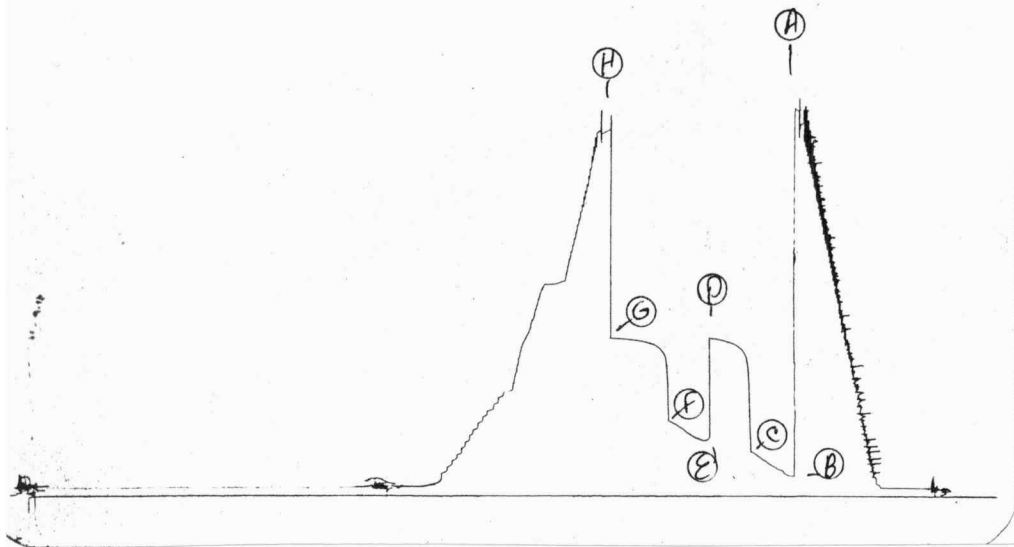
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> 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>218</u>	<u>0</u>	<u>262</u>	<u>0</u>	<u>311</u>
P 2 <u>5</u>	<u>114</u>	<u>3</u>	<u>569</u>	<u>5</u>	<u>258</u>	<u>3</u>	<u>647</u>
P 3 <u>10</u>	<u>134</u>	<u>6</u>	<u>687</u>	<u>10</u>	<u>264</u>	<u>6</u>	<u>718</u>
P 4 <u>15</u>	<u>158</u>	<u>9</u>	<u>739</u>	<u>15</u>	<u>279</u>	<u>9</u>	<u>793</u>
P 5 <u>20</u>	<u>179</u>	<u>12</u>	<u>841</u>	<u>20</u>	<u>296</u>	<u>12</u>	<u>865</u>
P 6 <u>25</u>	<u>201</u>	<u>15</u>	<u>925</u>	<u>25</u>	<u>302</u>	<u>15</u>	<u>933</u>
P 7 <u>30</u>	<u>218</u>	<u>18</u>	<u>987</u>	<u>30</u>	<u>311</u>	<u>18</u>	<u>994</u>
P 8		<u>21</u>	<u>1043</u>			<u>21</u>	<u>1038</u>
P 9		<u>24</u>	<u>1077</u>			<u>24</u>	<u>1070</u>
P10		<u>27</u>	<u>1106</u>			<u>27</u>	<u>1094</u>
P11		<u>30</u>	<u>1138</u>			<u>30</u>	<u>1111</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

SK # 7101

I

4331

7101



WESTERN TESTING CO., INC.

Pressure Data

Date 8-24-80 Test Ticket No. 7101
 Recorder No. 4331 Capacity 4150 Location 3975 Ft.
 Clock No. _____ Elevation 2366 KB Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2046</u>	P.S.I.	<u>4:00</u>	<u>1</u> M
B First Initial Flow Pressure	<u>118</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>251</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
D Initial Closed-in Pressure	<u>888</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
E Second Initial Flow Pressure	<u>323</u>	P.S.I.	<u>30</u>	Mins. <u>42</u> Mins.
F Second Final Flow Pressure	<u>424</u>	P.S.I.		
G Final Closed-in Pressure	<u>887</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2006</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>6</u> Inc.		Breakdown: <u>14</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	<u>118</u>	0	<u>251</u>	0	<u>323</u>	0	<u>424</u>
P 2 5	<u>127</u>	3	<u>716</u>	5	<u>319</u>	3	<u>967</u>
P 3 10	<u>153</u>	6	<u>796</u>	10	<u>334</u>	6	<u>815</u>
P 4 15	<u>175</u>	9	<u>829</u>	15	<u>355</u>	9	<u>836</u>
P 5 20	<u>197</u>	12	<u>845</u>	20 <u>382</u> ~~898~~		12	<u>850</u>
P 6 25	<u>225</u>	15	<u>858</u>	25	<u>407</u>	15	<u>860</u>
P 7 30	<u>251</u>	18	<u>866</u>	30	<u>424</u>	18	<u>866</u>
P 8 35		21	<u>873</u>	35		21	<u>871</u>
P 9 40		24	<u>878</u>	40		24	<u>875</u>
P10 45		27	<u>883</u>	45		27	<u>877</u>
P11 50		30	<u>888</u>	50		30	<u>875</u>
P12 55		33		55		33	<u>878</u>
P13 60		36		60		36	<u>881</u>
P14		39		65		39	<u>884</u>
P15		42		70		42	<u>887</u>
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

Company A. Scott Ritchie Lease & Well No. Pearson #1
Elevation 2366 Kelly Bushing Formation Kansas City Effective Pay ----- Ft. Ticket No. 7101
Date 8-24-80 Sec. 11 Twp. 12 S Range 22 W County Trego State KS
Test Approved by Roger ? Western Representative Steve Michellich

Formation Test No. 3 Interval Tested from 3672 ft. to 3700 ft. Total Depth 3700 ft.

Packer Depth 3772 ft. Size 6 3/4 in. Packer Depth ----- ft. Size --- in.

Packer Depth ----- ft. Size --- in. Packer Depth ----- ft. Size ----- in.

Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 3775 ft. Recorder Number 4331 Cap. 4150

Bottom Recorder Depth (Outside) 3778 ft. Recorder Number 13240 Cap. 4500

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

Drilling Contractor Murfin Drilling Rig #15 Drill Collar Length 90 I. D. 2.25 in.

Mud Type Starch Viscosity 43 Weight Pipe Length 973 I. D. 2.76 in.

Weight 9.7 Water Loss 13.8 cc. Drill Pipe Length 2563 I. D. 3.8 in.

Chlorides 43,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in.

Jars: Make NONE Serial Number ----- Anchor Length 28 ft. Size 5 1/2 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 FH in.

Blow: Strong blow throughout both openings.

Recovered 40 ft. of Slightly mud cut oil.

Recovered 900 ft. of Gassy heavy oil.

Recovered 940 ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:00 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 6:00 ~~P.M.~~ ^{A.M.} Maximum Temperature 111⁰ F.

Initial Hydrostatic Pressure (A) 2046 P.S.I.

Initial Flow Period Minutes 30 (B) 118 P.S.I. to (C) 251 P.S.I.

Initial Closed In Period Minutes 30 (D) 888 P.S.I.

Final Flow Period Minutes 30 (E) 323 P.S.I. to (F) 424 P.S.I.

Final Closed In Period Minutes 42 (G) 887 P.S.I.

Final Hydrostatic Pressure (H) 2006 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8-24-80 Test Ticket No. 7101
 Recorder No. 4331 Capacity 4150 Location 3775 Ft.
 Clock No. ----- Elevation 2366 Kelly Bushing Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2046</u> P.S.I.	Open Tool	<u>4:00</u> A M	
B First Initial Flow Pressure	<u>118</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>251</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>888</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>323</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>424</u> P.S.I.			
G Final Closed-in Pressure	<u>887</u> P.S.I.			
H Final Hydrostatic Mud	<u>2006</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ 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>118</u>	<u>0</u>	<u>251</u>	<u>0</u>	<u>323</u>	<u>0</u>	<u>424</u>
P 2 <u>5</u>	<u>127</u>	<u>3</u>	<u>716</u>	<u>5</u>	<u>319</u>	<u>3</u>	<u>767</u>
P 3 <u>10</u>	<u>153</u>	<u>6</u>	<u>796</u>	<u>10</u>	<u>334</u>	<u>6</u>	<u>815</u>
P 4 <u>15</u>	<u>175</u>	<u>9</u>	<u>829</u>	<u>15</u>	<u>355</u>	<u>9</u>	<u>836</u>
P 5 <u>20</u>	<u>197</u>	<u>12</u>	<u>845</u>	<u>20</u>	<u>382</u>	<u>12</u>	<u>850</u>
P 6 <u>25</u>	<u>225</u>	<u>15</u>	<u>858</u>	<u>25</u>	<u>407</u>	<u>15</u>	<u>860</u>
P 7 <u>30</u>	<u>251</u>	<u>18</u>	<u>866</u>	<u>30</u>	<u>424</u>	<u>18</u>	<u>866</u>
P 8 _____	_____	<u>21</u>	<u>873</u>	_____	_____	<u>21</u>	<u>871</u>
P 9 _____	_____	<u>24</u>	<u>878</u>	_____	_____	<u>24</u>	<u>875</u>
P10 _____	_____	<u>27</u>	<u>883</u>	_____	_____	<u>27</u>	<u>877</u>
P11 _____	_____	<u>30</u>	<u>888</u>	_____	_____	<u>30</u>	<u>875</u>
P12 _____	_____	_____	_____	_____	_____	<u>33</u>	<u>878</u>
P13 _____	_____	_____	_____	_____	_____	<u>36</u>	<u>881</u>
P14 _____	_____	_____	_____	_____	_____	<u>39</u>	<u>884</u>
P15 _____	_____	_____	_____	_____	_____	<u>42</u>	<u>887</u>
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____



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

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N° 7102

Elevation

Kelly Bushing
2366 KB

Formation

Kansas City

Eff. Pay Ft.

District Wakeeney

Date 8-24-80

Customer Order No.

COMPANY NAME

A. Scott Ritchie

ADDRESS

Suite 950, 125 N. Market, Wichita, Ks. 67202

LEASE AND WELL NO.

Pearson #1

COUNTY

Trego

STATE

Ks.

Sec.

11

Twp.

125

Rge

22W

Mail Invoice To

Same

Co. Name

Address

No. Copies Requested

5

Mail Charts To

Address

No. Copies Requested

5

Formation Test No.

4

Interval Tested from

3699

ft. to

3734

ft.

Total Depth

3734

ft.

Packer Depth

3699

ft.

Size

6 3/4

in.

Packer Depth

ft.

Size

ft.

Size

in.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Depth of Selective Zone Set

Top Recorder Depth (Inside)

3702

ft.

Recorder Number

4331

Cap.

4150

Bottom Recorder Depth (Outside)

3705

ft.

Recorder Number

13240

Cap.

4500

Below Straddle Recorder Depth

ft.

Recorder Number

Cap.

Cap.

Cap.

Drilling Contractor

Murphy Rig 15

Drill Collar Length

90'

I. D.

2.25

in.

Mud Type

Starch

Viscosity

43

Weight Pipe Length

973'

I. D.

2.76

in.

Weight

9.7

Water Loss

13.8

cc.

Drill Pipe Length

2621'

I. D.

3.8

in.

Chlorides

43,000

P.P.M.

Test Tool Length

15'

ft.

Tool Size

5 1/2

in.

Jars: Make

None

Serial Number

4

Anchor Length

35'

ft.

Size

5 1/2

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 FH

in.

Blow:

1st Opening - Weak Blow Died in 10 min

2nd Opening - No Blow

Recovered 10 ft. of

Slightly Oil cut Mud

Recovered 62 ft. of

Mud

Recovered 72 ft. of

Total Fluid

Recovered ft. of

Recovered ft. of

Remarks:

4:00 5:30

Time Set Packer(s)

7:15

A.M.
P.M.

Time Started Off Bottom

9:15

A.M.
P.M.

Maximum Temperature

111°

Initial Hydrostatic Pressure

(A)

2036

P.S.I.

Initial Flow Period

Minutes

30

(B)

87

P.S.I. to (C)

87

P.S.I.

Initial Closed In Period

Minutes

30

(D)

955

P.S.I.

Final Flow Period

Minutes

30

(E)

98

P.S.I. to (F)

98

P.S.I.

Final Closed In Period

Minutes

30

(G)

448

P.S.I.

Final Hydrostatic Pressure

(H)

2036

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 of Customer or his authorized representative

Western Representative

Steve Michellish

FIELD INVOICE

Open Hole Test

\$ 550.00

Misrun

\$

Straddle Test

\$

Jars

\$

Selective Zone

\$

Safety Joint

\$

Standby

\$

Evaluation

\$

Extra Packer

\$

Circ. Sub.

\$

Mileage

\$

Fluid Sampler

\$

Extra Charts

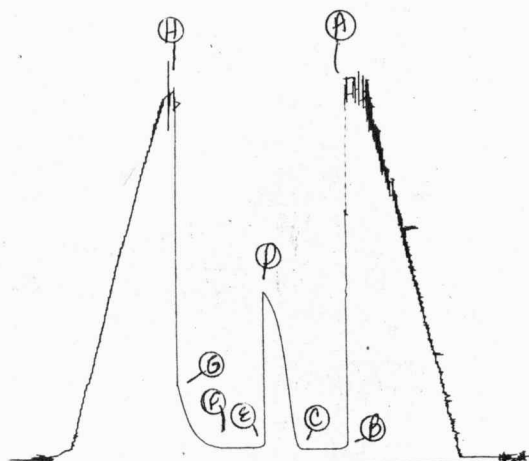
\$

TOTAL

\$ 550.00

skt #7102
I

7102



WESTERN TESTING CO., INC.

Pressure Data

Date 8-24-80 Test Ticket No. 7102
 Recorder No. 4331 Capacity 4150 Location 3702 Ft.
 Clock No. _____ Elevation 2366 KB Well Temperature 111 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2038</u> P.S.I.		7:15 P M	
B First Initial Flow Pressure <u>100</u> P.S.I.		30 Mins.	30 Mins.
C First Final Flow Pressure <u>92</u> P.S.I.		30 Mins.	30 Mins.
D Initial Closed-in Pressure <u>95</u> P.S.I.		30 Mins.	30 Mins.
E Second Initial Flow Pressure <u>109</u> P.S.I.		30 Mins.	33 Mins.
F Second Final Flow Pressure <u>100</u> P.S.I.			
G Final Closed-in Pressure <u>442</u> P.S.I.			
H Final Hydrostatic Mud <u>2032</u> ~~2030~~ 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>6</u> Inc.		Breakdown: <u>11</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	100	0	92	0	109	0	100
P 2 5	92	3	92	5	100	3	103
P 3 10		6	120	10		6	108
P 4 15		9	225	15		9	113
P 5 20		12	389	20		12	122
P 6 25		15	552	25		15	142
P 7 30	92	18	683	30	100	18	162
P 8 35		21	774	35		21	190
P 9 40		24	845	40		24	225
P 10 45		27	899	45		27	286
P 11 50		30	955	50		30	360
P 12 55		33		55		33	442
P 13 60		36		60		36	
P 14		39		65		39	
P 15		42		70		42	
P 16		45		75		45	
P 17		48		80		48	
P 18		51		85		51	
P 19		54		90		54	
P 20		57				57	
		60				60	

Company A. Scott Ritchie Lease & Well No. Pearson #1
Elevation 2366 Kelly Bushing Formation Kansas City Effective Pay ----- Ft. Ticket No. 7102
Date 8-24-80 Sec. 11 Twp. 12 S Range 22 W County Trego State KS
Test Approved by Roger ? Western Representative Steve Michellich

Formation Test No. 4 Interval Tested from 3699 ft. to 3734 ft. Total Depth 3734 ft.

Packer Depth 3699 ft. Size 6 3/4 in. Packer Depth ----- ft. Size --- in.

Packer Depth ----- ft. Size ----- in. Packer Depth ----- ft. Size ----- in.

Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 3702 ft. Recorder Number 4331 Cap. 4150

Bottom Recorder Depth (Outside) 3705 ft. Recorder Number 13240 Cap. 4500

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

Drilling Contractor Murfin Drilling Rig #15 Drill Collar Length 90 I. D. 2.25 in.

Mud Type Starch Viscosity 43 Weight Pipe Length 973 I. D. 2.76 in.

Weight 9.7 Water Loss 13.8 cc. Drill Pipe Length 2621 I. D. 3.8 in.

Chlorides 43,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in.

Jars: Make NONE Serial Number ---- Anchor Length 35 ft. Size 5 1/2 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 FH in.

Blow: Initial flow period; weak blow died in ten minutes.

Final flow period; no blow.

Recovered 10 ft. of Slightly oil cut mud.

Recovered 62 ft. of Mud.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:15 ~~AM~~ P.M. Time Started Off Bottom 9:15 ~~AM~~ P.M. Maximum Temperature 111⁰ F.

Initial Hydrostatic Pressure (A) 2038 P.S.I.

Initial Flow Period Minutes 30 (B) 100 P.S.I. to (C) 92 P.S.I.

Initial Closed In Period Minutes 30 (D) 955 P.S.I.

Final Flow Period Minutes 30 (E) 109 P.S.I. to (F) 100 P.S.I.

Final Closed In Period Minutes 33 (G) 442 P.S.I.

Final Hydrostatic Pressure (H) 2032 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8-24-80

Test Ticket No. 7102

Recorder No. 4331

Capacity 4150

Location 3702 Ft.

Clock No. -----

Elevation 2366 Kelly Bushing

Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2038</u>	P.S.I.	<u>7:15</u> P	<u>M</u>
B First Initial Flow Pressure	<u>100</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>92</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>955</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>109</u>	P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>100</u>	P.S.I.		
G Final Closed-in Pressure	<u>442</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2032</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>6</u> Inc.		Breakdown: <u>11</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>100</u>	<u>0</u>	<u>92</u>	<u>0</u>	<u>109</u>	<u>0</u>	<u>100</u>
P 2 <u>5</u>	<u>92</u>	<u>3</u>	<u>92</u>	<u>5</u>	<u>100</u>	<u>3</u>	<u>103</u>
P 3 <u>10</u>	<u>92</u>	<u>6</u>	<u>120</u>	<u>10</u>	<u>100</u>	<u>6</u>	<u>108</u>
P 4 <u>15</u>	<u>92</u>	<u>9</u>	<u>225</u>	<u>15</u>	<u>100</u>	<u>9</u>	<u>113</u>
P 5 <u>20</u>	<u>92</u>	<u>12</u>	<u>389</u>	<u>20</u>	<u>100</u>	<u>12</u>	<u>122</u>
P 6 <u>25</u>	<u>92</u>	<u>15</u>	<u>552</u>	<u>25</u>	<u>100</u>	<u>15</u>	<u>142</u>
P 7 <u>30</u>	<u>92</u>	<u>18</u>	<u>683</u>	<u>30</u>	<u>100</u>	<u>18</u>	<u>162</u>
P 8 <u> </u>	<u> </u>	<u>21</u>	<u>774</u>	<u> </u>	<u> </u>	<u>21</u>	<u>190</u>
P 9 <u> </u>	<u> </u>	<u>24</u>	<u>845</u>	<u> </u>	<u> </u>	<u>24</u>	<u>225</u>
P10 <u> </u>	<u> </u>	<u>27</u>	<u>899</u>	<u> </u>	<u> </u>	<u>27</u>	<u>286</u>
P11 <u> </u>	<u> </u>	<u>30</u>	<u>955</u>	<u> </u>	<u> </u>	<u>30</u>	<u>360</u>
P12 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>33</u>	<u>442</u>
P13 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P14 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P15 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P16 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P17 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P18 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P19 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P20 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>



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

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No. 7103

Elevation 2366 KB Formation KC

Eff. Pay Ft.

District Wakarusa Date 8-25-80 Customer Order No.

COMPANY NAME A Scott Ritchie
ADDRESS Suite 950, 125 N. Market, Wichita, Ks. 67202

LEASE AND WELL NO. Pearson #1 COUNTY Trego STATE Ks Sec. 11 Twp 12S Rge 22W

Mail Invoice To Some Co. Name Address No. Copies Requested 5

Mail Charts To Address No. Copies Requested 5

Formation Test No. 5 Interval Tested from 3730 ft. to 3742 ft. Total Depth 3742 ft.

Packer Depth 3730 ft. Size in. Packer Depth ft. Size in.

Packer Depth ft. Size in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3733 ft.

Recorder Number 4331 Cap. 4150

Bottom Recorder Depth (Outside) 3736 ft.

Recorder Number 13240 Cap. 4500

Below Straddle Recorder Depth ft.

Recorder Number Cap.

Drilling Contractor Martin Rig 15

Drill Collar Length 90' I. D. 2.25 in.

Mud Type starch Viscosity 44

Weight Pipe Length 973' I. D. 2.26 in.

Weight 9.7 Water Loss 11.0 cc.

Drill Pipe Length 2621' I. D. 3.8 in.

Chlorides 41,000 P.P.M.

Test Tool Length 15' ft. Tool Size 5 1/2 in.

Jars: Make None Serial Number

Anchor Length 12' ft. Size 5 1/2 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 in.

Blow: Strong Blow Thru/out Both Openings

Recovered 72 ft. of Oil cut Mud 40% O.I. 60% Mud

Recovered 62 ft. of Mud cut Oil 60% O.I. 40% Mud

Recovered 496 ft. of Clean Gassy Oil

Recovered 156 ft. of Water cut O.I. 80% O.I. 20% Water

Recovered 124 ft. of Oil cut Water 10% O.I. 90% Water

Remarks: 940 Total Fluid

4.00 4.30 11.00

Time Set Packer(s) 5:45 A.M. P.M. Time Started Off Bottom 7:45 A.M. P.M. Maximum Temperature 112°

Initial Hydrostatic Pressure (A) 2036 P.S.I.

Initial Flow Period Minutes 30 (B) 120 P.S.I. to (C) 262 P.S.I.

Initial Closed In Period Minutes 30 (D) 1136 P.S.I.

Final Flow Period Minutes 30 (E) 306 P.S.I. to (F) 426 P.S.I.

Final Closed In Period Minutes 30 (G) 1126 P.S.I.

Final Hydrostatic Pressure (H) 2004 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]

FIELD INVOICE

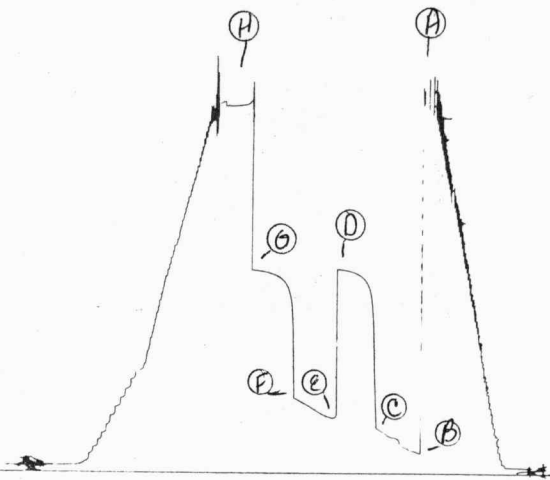
Open Hole Test \$ 550.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
TOTAL \$ 550.00

SKY # 7103

I

4331

7103



WESTERN TESTING CO., INC.

Pressure Data

Date 8-25-80 Test Ticket No. 7103
 Recorder No. 4331 Capacity 4150 Location 3933 Ft.
 Clock No. _____ Elevation 2366 KB Well Temperature 112 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2036</u> P.S.I.	<u>5:45</u> A M	
B First Initial Flow Pressure	<u>120</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>260</u> P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1138</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>317</u> P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>433</u> P.S.I.		
G Final Closed-in Pressure	<u>1131</u> P.S.I.		
H Final Hydrostatic Mud	<u>2019</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>11</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>11</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>260</u>	<u>0</u>	<u>317</u>	<u>0</u>	<u>433</u>
P 2	<u>5</u>	<u>3</u>	<u>713</u>	<u>5</u>	<u>317</u>	<u>3</u>	<u>886</u>
P 3	<u>10</u>	<u>6</u>	<u>970</u>	<u>10</u>	<u>338</u>	<u>6</u>	<u>1019</u>
P 4	<u>15</u>	<u>9</u>	<u>1081</u>	<u>15</u>	<u>360</u>	<u>9</u>	<u>1057</u>
P 5	<u>20</u>	<u>12</u>	<u>1104</u>	<u>20</u>	<u>385</u>	<u>12</u>	<u>1085</u>
P 6	<u>25</u>	<u>15</u>	<u>1117</u>	<u>25</u>	<u>406</u>	<u>15</u>	<u>1100</u>
P 7	<u>30</u>	<u>18</u>	<u>1123</u>	<u>30</u>	<u>433</u>	<u>18</u>	<u>1111</u>
P 8	<u>35</u>	<u>21</u>	<u>1127</u>	<u>35</u>		<u>21</u>	<u>1117</u>
P 9	<u>40</u>	<u>24</u>	<u>1130</u>	<u>40</u>		<u>24</u>	<u>1121</u>
P10	<u>45</u>	<u>27</u>	<u>1134</u>	<u>45</u>		<u>27</u>	<u>1127</u>
P11	<u>50</u>	<u>30</u>	<u>1136</u>	<u>50</u>		<u>30</u>	<u>1130</u>
P12	<u>55</u>	<u>33</u>	<u>1138</u>	<u>55</u>		<u>33</u>	<u>1131</u>
P13	<u>60</u>	<u>36</u>		<u>60</u>		<u>36</u>	
P14		<u>39</u>		<u>65</u>		<u>39</u>	
P15		<u>42</u>		<u>70</u>		<u>42</u>	
P16		<u>45</u>		<u>75</u>		<u>45</u>	
P17		<u>48</u>		<u>80</u>		<u>48</u>	
P18		<u>51</u>		<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

Company A. Scott Ritchie Lease & Well No. Pearson #1
Elevation 2366 Kelly Bushing Formation Kansas City Effective Pay ----- Ft. Ticket No. 7103
Date 8-25-80 Sec. 11 Twp. 12 S Range 22 W County Trego State KS
Test Approved by Roger ? Western Representative Steve Michellich
Formation Test No. 5 Interval Tested from 3730 ft. to 3742 ft. Total Depth 3742 ft.
Packer Depth 3730 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.
Packer Depth ----- ft. Size ----- in. Packer Depth ----- ft. Size --- in.
Depth of Selective Zone Set -----
Top Recorder Depth (Inside) 3733 ft. Recorder Number 4331 Cap. 4150
Bottom Recorder Depth (Outside) 3736 ft. Recorder Number 13240 Cap. 4500
Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. -----
Drilling Contractor Murfin Drilling Rig # 15 Drill Collar Length 90 I. D. 2.25 in.
Mud Type Starch Viscosity 44 Weight Pipe Length 973 I. D. 2.76 in.
Weight 9.7 Water Loss 11.0 cc. Drill Pipe Length 2621 I. D. 3.8 in.
Chlorides 41,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in.
Jars: Make NONE Serial Number ---- Anchor Length 12 ft. Size 5 1/2 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 FH in.

Blow: Strong blow throughout both openings

Recovered 72 ft. of Oil cut mud. (40% oil, 60% mud)
Recovered 62 ft. of Mud cut oil. (60% oil, 40% mud)
Recovered 496 ft. of Clean gassy oil.
Recovered 186 ft. of Water cut oil. (80% oil, 20% water)
Recovered 124 ft. of Oil cut water. (10% oil, 90% water)

Remarks: _____

Time Set Packer(s) 5:45 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 7:45 ~~P.M.~~ ^{A.M.} Maximum Temperature 112⁰ F.
Initial Hydrostatic Pressure (A) 2036 P.S.I.
Initial Flow Period Minutes 30 (B) 120 P.S.I. to (C) 260 P.S.I.
Initial Closed In Period Minutes 33 (D) 1138 P.S.I.
Final Flow Period Minutes 30 (E) 317 P.S.I. to (F) 433 P.S.I.
Final Closed In Period Minutes 33 (G) 1131 P.S.I.
Final Hydrostatic Pressure (H) 2019 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 8-25-80 Test Ticket No. 7103
Recorder No. 4331 Capacity 4150 Location 3733 Ft.
Clock No. ----- Elevation 2366 Kelly Bushing Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2036</u> P.S.I.	Open Tool	<u>5:45</u> A. M.	
B First Initial Flow Pressure	<u>120</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>260</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1138</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>317</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>433</u> P.S.I.			
G Final Closed-in Pressure	<u>1131</u> P.S.I.			
H Final Hydrostatic Mud	<u>2019</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>11</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>11</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>120</u>	<u>0</u>	<u>260</u>	<u>0</u>	<u>317</u>	<u>0</u>	<u>433</u>
P 2 <u>5</u>	<u>131</u>	<u>3</u>	<u>713</u>	<u>5</u>	<u>317</u>	<u>3</u>	<u>886</u>
P 3 <u>10</u>	<u>151</u>	<u>6</u>	<u>970</u>	<u>10</u>	<u>338</u>	<u>6</u>	<u>1019</u>
P 4 <u>15</u>	<u>186</u>	<u>9</u>	<u>1081</u>	<u>15</u>	<u>360</u>	<u>9</u>	<u>1057</u>
P 5 <u>20</u>	<u>210</u>	<u>12</u>	<u>1103</u>	<u>20</u>	<u>385</u>	<u>12</u>	<u>1085</u>
P 6 <u>25</u>	<u>227</u>	<u>15</u>	<u>1117</u>	<u>25</u>	<u>406</u>	<u>15</u>	<u>1100</u>
P 7 <u>30</u>	<u>260</u>	<u>18</u>	<u>1123</u>	<u>30</u>	<u>433</u>	<u>18</u>	<u>1111</u>
P 8		<u>21</u>	<u>1127</u>			<u>21</u>	<u>1117</u>
P 9		<u>24</u>	<u>1130</u>			<u>24</u>	<u>1121</u>
P10		<u>27</u>	<u>1134</u>			<u>27</u>	<u>1127</u>
P11		<u>30</u>	<u>1136</u>			<u>30</u>	<u>1130</u>
P12		<u>33</u>	<u>1138</u>			<u>33</u>	<u>1131</u>
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



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

WESTERN TESTING CO., INC.

FORMATION TESTING

Kelly Bushing

TICKET No 7104

KC Kansas City

Elevation 2366 KB Formation KC Eff. Pay Ft.

District Wakeeney Date 8-25-80 Customer Order No.

COMPANY NAME A. Scott Ritchie

ADDRESS Suite 950, 125 N Market, Wichita, Ks. 67202

LEASE AND WELL NO. Pearson #1 COUNTY Trego STATE Ks Sec. 11 Twp. 12S Rge. 22W

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

Mail Charts To Co. Name Address No. Copies Requested 5

Formation Test No. 6 Interval Tested from 3742 ft. to 3770 ft. Total Depth 3770 ft.

Packer Depth 3742 ft. Size 6 7/8 in. Packer Depth ft. Size in.

Packer Depth ft. Size in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3745 ft. Recorder Number 4331 Cap. 4150

Bottom Recorder Depth (Outside) 3748 ft. Recorder Number 13240 Cap. 4500

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Murfin Rig #15 Drill Collar Length 90 I. D. 2.25 in.

Mud Type Slick Viscosity 41 Weight Pipe Length 973 I. D. 2.70 in.

Weight 9.1 Water Loss 13.0 cc. Drill Pipe Length 2652 I. D. 3.8 in.

Chlorides 59,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in.

Jars: Make None Serial Number 5 Anchor Length 28 ft. Size 5 1/2 in.

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

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

Blow: Fair Blow Thru/out Both Openings

Recovered 72 ft. of Water & Mud Cut Oil 70% Oil 20% Mud 10% Water

Recovered 62 ft. of Water & Mud Cut Oil 50% Oil 20% Mud 30% Water

Recovered 62 ft. of Oil & Mud Cut Water 25% Oil 20% Mud 55% Water

Recovered 62 ft. of Slightly Oil Cut Muddy Water

Recovered 28 ft. of Total Fluid

Remarks:

7:00 8:30

Time Set Packer(s) 9:40 A.M. Time Started Off Bottom 11:40 A.M. Maximum Temperature 112°

Initial Hydrostatic Pressure (A) 2057 P.S.I.

Initial Flow Period Minutes 30 (B) 55 P.S.I. to (C) 98 P.S.I.

Initial Closed In Period Minutes 30 (D) 1136 P.S.I.

Final Flow Period Minutes 30 (E) 120 P.S.I. to (F) 142 P.S.I.

Final Closed In Period Minutes 30 (G) 1126 P.S.I.

Final Hydrostatic Pressure (H) 2025 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 Steve Mitchell

FIELD INVOICE

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

TOTAL \$550.00

RECEIVED
 AUG 29 1980

WESTERN TESTING CO., INC.

Pressure Data

Date 8-25 Test Ticket No. 7104
 Recorder No. 4331 Capacity 4150 Location 3745 Ft.
 Clock No. — Elevation 2366 K B Well Temperature 112 °F

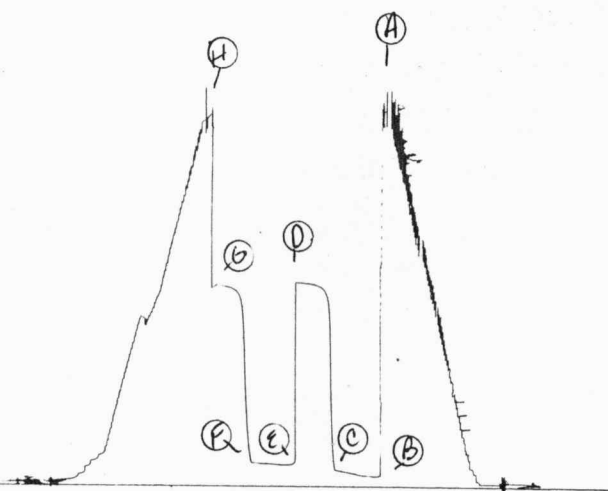
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2058</u>	P.S.I.	<u>9:40</u>	M
B First Initial Flow Pressure	<u>63</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>98</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
D Initial Closed-in Pressure	<u>1143</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
E Second Initial Flow Pressure	<u>129</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
F Second Final Flow Pressure	<u>137</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
G Final Closed-in Pressure	<u>1127</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2040</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>6</u> Inc.		Breakdown: <u>10</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>63</u>	<u>0</u>	<u>98</u>	<u>0</u>	<u>129</u>	<u>0</u>	<u>137</u>
P 2 <u>5</u>	<u>63</u>	<u>3</u>	<u>413</u>	<u>5</u>	<u>127</u>	<u>3</u>	<u>327</u>
P 3 <u>10</u>	<u>64</u>	<u>6</u>	<u>908</u>	<u>10</u>	<u>127</u>	<u>6</u>	<u>653</u>
P 4 <u>15</u>	<u>70</u>	<u>9</u>	<u>1072</u>	<u>15</u>	<u>129</u>	<u>9</u>	<u>1009</u>
P 5 <u>20</u>	<u>80</u>	<u>12</u>	<u>1106</u>	<u>20</u>	<u>133</u>	<u>12</u>	<u>1082</u>
P 6 <u>25</u>	<u>87</u>	<u>15</u>	<u>1121</u>	<u>25</u>	<u>135</u>	<u>15</u>	<u>1109</u>
P 7 <u>30</u>	<u>98</u>	<u>18</u>	<u>1130</u>	<u>30</u>	<u>137</u>	<u>18</u>	<u>1114</u>
P 8 <u>35</u>		<u>21</u>	<u>1133</u>	<u>35</u>		<u>21</u>	<u>1121</u>
P 9 <u>40</u>		<u>24</u>	<u>1137</u>	<u>40</u>		<u>24</u>	<u>1123</u>
P10 <u>45</u>		<u>27</u>	<u>1140</u>	<u>45</u>		<u>27</u>	<u>1125</u>
P11 <u>50</u>		<u>30</u>	<u>1143</u>	<u>50</u>		<u>30</u>	<u>1127</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	
P13 <u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	
P14		<u>39</u>		<u>65</u>		<u>39</u>	
P15		<u>42</u>		<u>70</u>		<u>42</u>	
P16		<u>45</u>		<u>75</u>		<u>45</u>	
P17		<u>48</u>		<u>80</u>		<u>48</u>	
P18		<u>51</u>		<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

SK # 7104
I

4331
7104



WESTERN TESTING CO., INC.

Pressure Data

Date 8/25/80 Recorder No. 4331 Capacity 4150 Test Ticket No. 7104
 Clock No. - Elevation 2366 Kelly Bushing Location 3745 Ft. 112 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2058 P.S.I.	9:40 M	
B First Initial Flow Pressure	63 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	98 P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1143 P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	129 P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	137 P.S.I.		
G Final Closed-in Pressure	1127 P.S.I.		
H Final Hydrostatic Mud	2040 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	63	0	98	0	129	0	137
P 2 5	63	3	413	5	127	3	327
P 3 10	64	6	908	10	127	6	653
P 4 15	70	9	1072	15	129	9	1009
P 5 20	80	12	1106	20	133	12	1082
P 6 25	87	15	1121	25	135	15	1104
P 7 30	98	18	1130	30	137	18	1114
P 8		21	1133			21	1121
P 9		24	1137			24	1123
P 10		27	1140			27	1125
P 11		30	1143			30	1127
P 12							
P 13							
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No. 7105
Kelly Bushing
Kansas City

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

WICHITA, KANSAS 67201

Elevation 2366 KB Formation KC Eff. Pay Ft.

District Wg Keeney Date 8-26-80 Customer Order No.

COMPANY NAME A. Scott Ritchie

ADDRESS Suite 950, 125 N. Market, Wichita, Ks. 67202

LEASE AND WELL NO. Pearson #1 COUNTY Trego STATE Ks Sec. 11 Twp 12S Rge 22W

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

Mail Charts To Address No. Copies Requested 5

Formation Test No. 7 Interval Tested from 3770 ft. to 3850 ft. Total Depth 3850 ft.

Packer Depth 3770 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth ft. Size in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3773 ft. Recorder Number 4331 Cap. 4150

Bottom Recorder Depth (Outside) 3776 ft. Recorder Number 13240 Cap. 4500

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Murfin Rig #15 Drill Collar Length 90 I. D. 2.25 in.

Mud Type Starch Viscosity 50 Weight Pipe Length 910 I. D. 2.76 in.

Weight 9.8 Water Loss 10.6 cc. Drill Pipe Length 2755 I. D. 3.8 in.

Chlorides 58,000 P.P.M. Test Tool Length 75 ft. Tool Size 5 1/2 in.

Jars: Make None Serial Number 5 Anchor Length 80 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 4 1/2 in.

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

Blow: Very Weak Intermittent Blow Through Both Openings

Recovered 30 ft. of Oil Specked Mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

3:00 4:00 11:00

Time Set Packer(s) 5:20 AM P.M. Time Started Off Bottom 8:20 AM P.M. Maximum Temperature 112°

Initial Hydrostatic Pressure (A) 2088 P.S.I.

Initial Flow Period Minutes 45 (B) 55 P.S.I. to (C) 55 P.S.I.

Initial Closed In Period Minutes 45 (D) 142 P.S.I.

Final Flow Period Minutes 45 (E) 66 P.S.I. to (F) 66 P.S.I.

Final Closed In Period Minutes 45 (G) 87 P.S.I.

Final Hydrostatic Pressure (H) 2057 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] Steve Mitchell

FIELD INVOICE

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

TOTAL \$ 550.00

WESTERN TESTING CO., INC.

Pressure Data

Date 8-26 Test Ticket No. 7105
 Recorder No. 4331 Capacity 4150 Location 3973 Ft.
 Clock No. Elevation 2366 KB Well Temperature 112 °F
 Time Given 5:20 P Time Computed

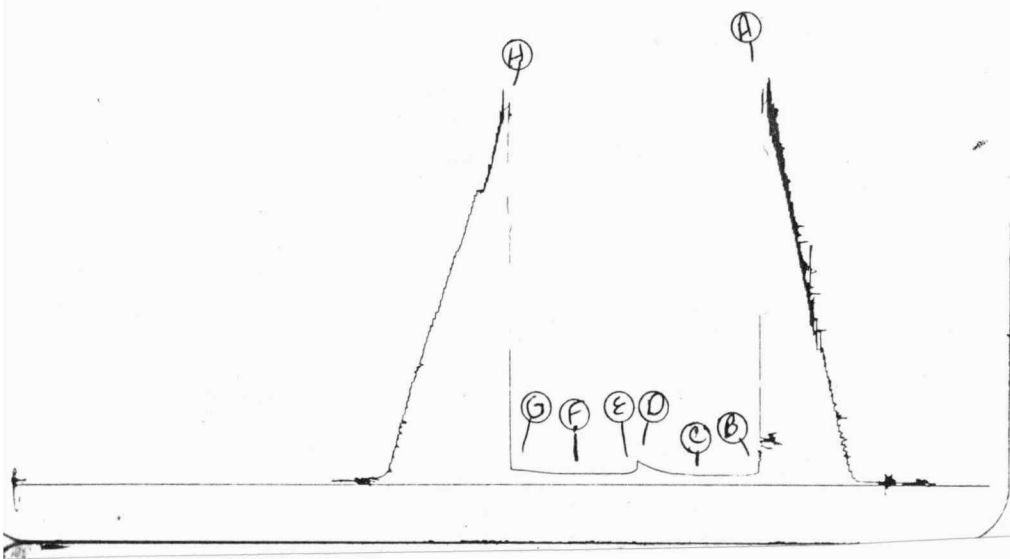
Point	Pressure	P.S.I.	Open Tool
A Initial Hydrostatic Mud	2080	P.S.I.	
B First Initial Flow Pressure	65	P.S.I.	First Flow Pressure <u>45</u> Mins. <u>45</u> Mins.
C First Final Flow Pressure	59	P.S.I.	Initial Closed-in Pressure <u>45</u> Mins. <u>45</u> Mins.
D Initial Closed-in Pressure	138	P.S.I.	Second Flow Pressure <u>45</u> Mins. <u>45</u> Mins.
E Second Initial Flow Pressure	78	P.S.I.	Final Closed-in Pressure <u>45</u> Mins. <u>45</u> Mins.
F Second Final Flow Pressure	68	P.S.I.	
G Final Closed-in Pressure	87	P.S.I.	
H Final Hydrostatic Mud	2050	P.S.I.	

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>09</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>15</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 <u>65</u>	0	<u>59</u>	0	<u>78</u>	0	<u>68</u>
P 2	5 <u>61</u>	3	<u>61</u>	5	<u>70</u>	3	<u> </u>
P 3	10 <u>59</u>	6	<u>63</u>	10	<u>68</u>	6	<u> </u>
P 4	15 <u> </u>	9	<u>65</u>	15	<u> </u>	9	<u> </u>
P 5	20 <u> </u>	12	<u>67</u>	20	<u> </u>	12	<u> </u>
P 6	25 <u> </u>	15	<u>68</u>	25	<u> </u>	15	<u>68</u>
P 7	30 <u>59</u>	18	<u>70</u>	30	<u> </u>	18	<u>69</u>
P 8	35 <u>35 59</u>	21	<u>72</u>	35	<u> </u>	21	<u>70</u>
P 9	40 <u>40 59</u>	24	<u>76</u>	40	<u> </u>	24	<u>72</u>
P10	45 <u>45 59</u>	27	<u>83</u>	45	<u>68</u>	27	<u>75</u>
P11	50 <u> </u>	30	<u>90</u>	50	<u> </u>	30	<u>78</u>
P12	55 <u> </u>	33	<u>98</u>	55	<u> </u>	33	<u>80</u>
P13	60 <u> </u>	36	<u>109</u>	60	<u> </u>	36	<u>82</u>
P14	<u> </u>	39	<u>118</u>	65	<u> </u>	39	<u>84</u>
P15	<u> </u>	42	<u>129</u>	70	<u> </u>	42	<u>86</u>
P16	<u> </u>	45	<u>138</u>	75	<u> </u>	45	<u>87</u>
P17	<u> </u>	48	<u> </u>	80	<u> </u>	48	<u> </u>
P18	<u> </u>	51	<u> </u>	85	<u> </u>	51	<u> </u>
P19	<u> </u>	54	<u> </u>	90	<u> </u>	54	<u> </u>
P20	<u> </u>	57	<u> </u>	<u> </u>	<u> </u>	57	<u> </u>
		60	<u> </u>	<u> </u>	<u> </u>	60	<u> </u>

JK# 7105
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7551
7105



Company A. Scott Ritchie Lease & Well No. Pearson #1
Elevation 2366 Kelly Bushing Kansas City Formation ----- Effective Pay ----- Ft. Ticket No. 7105
Date 8/26/80 Sec. 11 Twp. 12S Range 22W County Trego State Kansas
Test Approved by Roger ---- Western Representative Steve Michellich

Formation Test No. 7 Interval Tested from 3770 ft. to 3850 ft. Total Depth 3850 ft.
Packer Depth 3770 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3773 ft. Recorder Number 4331 Cap. 4150
Bottom Recorder Depth (Outside) 3776 ft. Recorder Number 13240 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Murfin Drilling Rig #15 Drill Collar Length 90 I. D. 2.25 in.
Mud Type starch Viscosity 50 Weight Pipe Length 910 I. D. 2.76 in.
Weight 9.8 Water Loss 10.6 cc. Drill Pipe Length 2755 I. D. 3.8 in.
Chlorides 58,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in.
Jars: Make None Serial Number - Anchor Length 80 ft. Size 5 1/2 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 FH in.

Blow: Very weak intermittent blow throughout both openings.

Recovered 30 ft. of oil specked mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks:

Time Set Packer(s) 5:20 A.M. Time Started Off Bottom 8:20 P.M. Maximum Temperature 112°
Initial Hydrostatic Pressure 2080 (A) P.S.I.
Initial Flow Period 45 Minutes (B) 65 P.S.I. to (C) 59 P.S.I.
Initial Closed In Period 45 Minutes (D) 138 P.S.I.
Final Flow Period 45 Minutes (E) 78 P.S.I. to (F) 68 P.S.I.
Final Closed In Period 45 Minutes (G) 87 P.S.I.
Final Hydrostatic Pressure 2050 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8/26/80 Recorder No. 4331 Capacity 4150 Test Ticket No. 7105 Location 3773 Ft.
 Clock No. - Elevation 2366 Kelly Bushing Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2080</u>	P.S.I.	<u>5:20P</u>	<u>M</u>
B First Initial Flow Pressure	<u>65</u>	P.S.I.	<u>45</u>	<u>45</u>
C First Final Flow Pressure	<u>59</u>	P.S.I.	<u>45</u>	<u>45</u>
D Initial Closed-in Pressure	<u>138</u>	P.S.I.	<u>45</u>	<u>45</u>
E Second Initial Flow Pressure	<u>78</u>	P.S.I.	<u>45</u>	<u>45</u>
F Second Final Flow Pressure	<u>68</u>	P.S.I.		
G Final Closed-in Pressure	<u>87</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2050</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>15</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>65</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>78</u>	<u>0</u>	<u>68</u>
P 2 <u>5</u>	<u>61</u>	<u>3</u>	<u>61</u>	<u>5</u>	<u>70</u>	<u>3</u>	<u>68</u>
P 3 <u>10</u>	<u>59</u>	<u>6</u>	<u>63</u>	<u>10</u>	<u>68</u>	<u>6</u>	<u>68</u>
P 4 <u>15</u>	<u>59</u>	<u>9</u>	<u>65</u>	<u>15</u>	<u>68</u>	<u>9</u>	<u>68</u>
P 5 <u>20</u>	<u>59</u>	<u>12</u>	<u>67</u>	<u>20</u>	<u>68</u>	<u>12</u>	<u>68</u>
P 6 <u>25</u>	<u>59</u>	<u>15</u>	<u>68</u>	<u>25</u>	<u>68</u>	<u>15</u>	<u>68</u>
P 7 <u>30</u>	<u>59</u>	<u>18</u>	<u>70</u>	<u>30</u>	<u>68</u>	<u>18</u>	<u>69</u>
P 8 <u>35</u>	<u>59</u>	<u>21</u>	<u>72</u>	<u>35</u>	<u>68</u>	<u>21</u>	<u>70</u>
P 9 <u>40</u>	<u>59</u>	<u>24</u>	<u>76</u>	<u>40</u>	<u>68</u>	<u>24</u>	<u>72</u>
P10 <u>45</u>	<u>59</u>	<u>27</u>	<u>83</u>	<u>45</u>	<u>68</u>	<u>27</u>	<u>75</u>
P11		<u>30</u>	<u>90</u>			<u>30</u>	<u>78</u>
P12		<u>33</u>	<u>98</u>			<u>33</u>	<u>80</u>
P13		<u>36</u>	<u>109</u>			<u>36</u>	<u>82</u>
P14		<u>39</u>	<u>118</u>			<u>39</u>	<u>84</u>
P15		<u>42</u>	<u>129</u>			<u>42</u>	<u>86</u>
P16		<u>45</u>	<u>138</u>			<u>45</u>	<u>87</u>
P17							
P18							
P19							
P20							



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

WESTERN TESTING CO., INC.

FORMATION TESTING

Kelly Bushing

TICKET N° 7106

Marvin

Elevation

2366 KB

Formation

Marmaton

Eff. Pay Ft.

District

Wakeney

Date

8-27-80

Customer Order No.

COMPANY NAME

A. Scott Ritchie

ADDRESS Suite 950, 125 N Market, Wichita, Ks. 67202

LEASE AND WELL NO. Pearson #1 COUNTY Trego STATE Ks. Sec. 11 Twp 12S Rge 22W

Mail Invoice To

Same

Co. Name

Address

No. Copies Requested

5

Mail Charts To

11

Address

No. Copies Requested

5

Formation Test No. 8 Interval Tested from 3977 ft. to 4010 ft. Total Depth 4010 ft.

Packer Depth 3977 ft. Size 6 3/4 in.

Packer Depth ft. Size in.

Packer Depth ft. Size in.

Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3980 ft.

Recorder Number 4331 Cap. 4150

Bottom Recorder Depth (Outside) 3983 ft.

Recorder Number 13240 Cap. 4500

Below Straddle Recorder Depth ft.

Recorder Number Cap.

Drilling Contractor Murfin Rig #15

Drill Collar Length 90 I. D. 2.25 in.

Mud Type Starch Viscosity 49

Weight Pipe Length 972 I. D. 2.76 in.

Weight 9.9 Water Loss 10.8 cc.

Drill Pipe Length 3900 I. D. 3.8 in.

Chlorides 36,000 P.P.M.

Test Tool Length 15' ft. Tool Size 5 1/2 in.

Jars: Make None Serial Number

Anchor Length 33' ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Initial flow period

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

Blow: 1st Opening - Very Weak Intermittent Blow Thru/out throughout

2nd Opening - No Blow

Final flow period

Recovered 20 ft. of Oil Specked Mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

RECEIVED
AUG 29 1980

7:00 8:30

300

Time Set Packer(s) 10:05 A.M. (P.M.) Time Started Off Bottom 12:05 A.M. (P.M.)

Maximum Temperature 114°

Initial Hydrostatic Pressure (A) 2225 P.S.I.

Initial Flow Period Minutes 30 (B) 66 P.S.I. to (C) 66 P.S.I.

Initial Closed In Period Minutes 30 (D) 664 P.S.I.

Final Flow Period Minutes 30 (E) 76 P.S.I. to (F) 76 P.S.I.

Final Closed In Period Minutes 30 (G) 164 P.S.I.

Final Hydrostatic Pressure (H) 2193 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 of Customer or his authorized representative

Western Representative

Steve Mickellich

FIELD INVOICE

Open Hole Test \$ 600.00

Misrun \$

Straddle Test \$

Jars \$

Selective Zone \$

Safety Joint \$

Standby \$

Evaluation \$

Extra Packer \$

Circ. Sub. \$

Mileage \$

Fluid Sampler \$

Extra Charts \$

TOTAL \$ 600.00

WESTERN TESTING CO., INC.

Pressure Data

Date 8-27 Test Ticket No. 7106
 Recorder No. 4331 Capacity 4150 Location 3980 Ft.
 Clock No. — Elevation 2366 KB Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2214</u>	P.S.I.	<u>10:05</u> P	M
B First Initial Flow Pressure	<u>69</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>64</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
D Initial Closed-in Pressure	<u>666</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
E Second Initial Flow Pressure	<u>85</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
F Second Final Flow Pressure	<u>74</u>	P.S.I.		
G Final Closed-in Pressure	<u>164</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2186</u>	P.S.I.		

PRESSURE BREAKDOWN

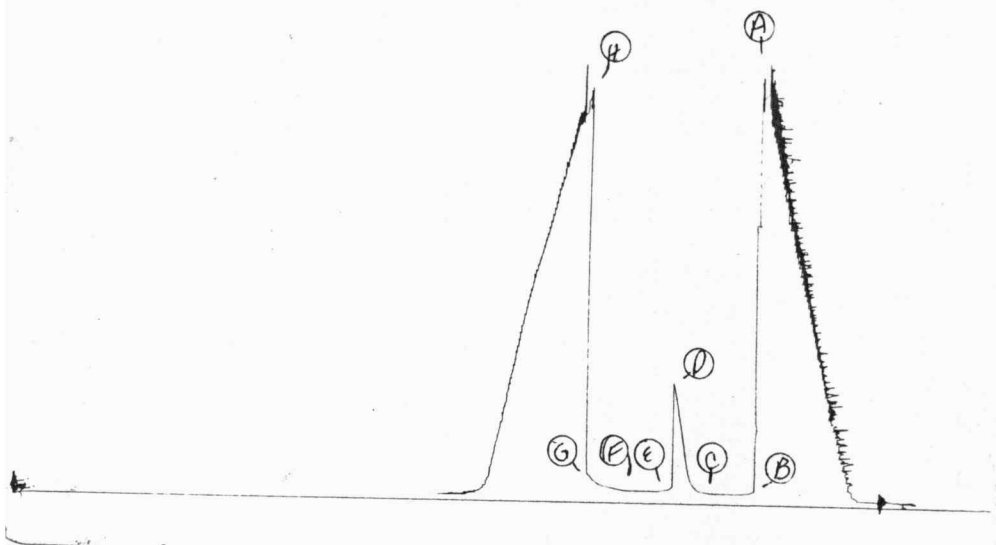
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> 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	<u>69</u>	0	<u>66</u>	0	<u>85</u>	0	<u>74</u>
P 2 5	<u>68</u>	3	<u>69</u>	5	<u>79</u>	3	<u>74</u>
P 3 10	<u>66</u>	6	<u>72</u>	10	<u>74</u>	6	<u>78</u>
P 4 15		9	<u>74</u>	15		9	<u>82</u>
P 5 20		12	<u>96</u>	20		12	<u>87</u>
P 6 25		15	<u>129</u>	25	✓	15	<u>92</u>
P 7 30	<u>66</u>	18	<u>223</u>	30	<u>74</u>	18	<u>96</u>
P 8 35		21	<u>367</u>	35		21	<u>103</u>
P 9 40		24	<u>498</u>	40		24	<u>115</u>
P 10 45		27	<u>618</u>	45		27	<u>133</u>
P 11 50		30	<u>666</u>	50		30	<u>144</u>
P 12 55		33		55		33	
P 13 60		36		60		36	
P 14		39		65		39	
P 15		42		70		42	
P 16		45		75		45	
P 17		48		80		48	
P 18		51		85		51	
P 19		54		90		54	
P 20		57				57	
		60				60	

SWT # 7106

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4331

7106



Company A. Scott Ritchie Lease & Well No. Pearson #1
 Elevation 2366 Kelly Bushing Marmaton Formation Effective Pay --- Ft. Ticket No. 7106
 Date 8/27/80 Sec. 11 Twp. 12S Range 22W County Trego State Kansas
 Test Approved by Roger ----- Western Representative Steve Michellich
 Formation Test No. 8 Interval Tested from 3977 ft. to 4010 ft. Total Depth 4010 ft.
 Packer Depth 3977 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3980 ft. Recorder Number 4331 Cap. 4150
 Bottom Recorder Depth (Outside) 3983 ft. Recorder Number 13240 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Murfin Drilling Rig #15 Drill Collar Length 90 I. D. 2.25 in.
 Mud Type starch Viscosity 49 Weight Pipe Length 972 I. D. 2.76 in.
 Weight 9.9 Water Loss 10.8 cc. Drill Pipe Length 3900 I. D. 3.8 in.
 Chlorides 36,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in.
 Jars: Make None Serial Number - Anchor Length 33 ft. Size 5 1/2 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 FH in.

Blow: Initial flow period very weak intermittent blow throughout. Final flow period no blow.

Recovered 20 ft. of oil specked mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:05 =A.M. Time Started Off Bottom 12:05 =P.M. Maximum Temperature 114°
 Initial Hydrostatic Pressure (A) 2214 P.S.I.
 Initial Flow Period Minutes 30 (B) 69 P.S.I. to (C) 66 P.S.I.
 Initial Closed In Period Minutes 30 (D) 666 P.S.I.
 Final Flow Period Minutes 30 (E) 85 P.S.I. to (F) 74 P.S.I.
 Final Closed In Period Minutes 30 (G) 164 P.S.I.
 Final Hydrostatic Pressure (H) 2186 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8/27/80 Test Ticket No. 7106
 Recorder No. 4331 Capacity 4150 Location 3980 Ft.
 Clock No. - Elevation 2366 Kelly Bushing Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2214 P.S.I.	Open Tool	10:05P	M
B First Initial Flow Pressure	69 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	66 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	666 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	85 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	74 P.S.I.			
G Final Closed-in Pressure	164 P.S.I.			
H Final Hydrostatic Mud	2186 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>6</u> Inc.		Breakdown: <u>10</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>69</u>	<u>0</u>	<u>66</u>	<u>0</u>	<u>85</u>	<u>0</u>	<u>74</u>
P 2 <u>5</u>	<u>68</u>	<u>3</u>	<u>69</u>	<u>5</u>	<u>79</u>	<u>3</u>	<u>74</u>
P 3 <u>10</u>	<u>66</u>	<u>6</u>	<u>72</u>	<u>10</u>	<u>74</u>	<u>6</u>	<u>78</u>
P 4 <u>15</u>	<u>66</u>	<u>9</u>	<u>74</u>	<u>15</u>	<u>74</u>	<u>9</u>	<u>82</u>
P 5 <u>20</u>	<u>66</u>	<u>12</u>	<u>96</u>	<u>20</u>	<u>74</u>	<u>12</u>	<u>87</u>
P 6 <u>25</u>	<u>66</u>	<u>15</u>	<u>129</u>	<u>25</u>	<u>74</u>	<u>15</u>	<u>92</u>
P 7 <u>30</u>	<u>66</u>	<u>18</u>	<u>223</u>	<u>30</u>	<u>74</u>	<u>18</u>	<u>96</u>
P 8		<u>21</u>	<u>367</u>			<u>21</u>	<u>103</u>
P 9		<u>24</u>	<u>498</u>			<u>24</u>	<u>115</u>
P10		<u>27</u>	<u>618</u>			<u>27</u>	<u>133</u>
P11		<u>30</u>	<u>666</u>			<u>30</u>	<u>164</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 7107

Elevation

2366 KB

Formation

Arbuckle

Eff. Pay Ft.

District

Wakeeney

Date

8-28-80

Customer Order No.

COMPANY NAME

ADDRESS Suite 950, 125 N. Market, Wichita, Ks.

LEASE AND WELL NO.

Pearson #1

COUNTY

Trego

STATE

Ks

Sec.

11

Twp.

12S

Rge.

22W

Mail Invoice To

Same Pearson #1

No. Copies Requested

5

Co. Name

Mail Charts To

Address

No. Copies Requested

5

Formation Test No.

9

Interval Tested from

4000

ft. to

4070

ft.

Total Depth

4070

ft.

Packer Depth

4000

ft.

Size

6 3/4

in.

Packer Depth

ft.

Size

6 3/4

in.

Packer Depth

ft.

Size

6 3/4

in.

Packer Depth

ft.

Size

6 3/4

in.

Depth of Selective Zone Set

Top Recorder Depth (Inside)

4003

ft.

Recorder Number

4331

Cap.

4150

Bottom Recorder Depth (Outside)

4006

ft.

Recorder Number

13240

Cap.

4500

Below Straddle Recorder Depth

ft.

Recorder Number

Cap.

Drilling Contractor

Murfin Rig 15

Mud Type

Starch

Viscosity

50

Weight

10.1

Water Loss

18.2 cc.

Chlorides

39,000

P.P.M.

Jars: Make

None

Serial Number

Did Well Flow?

No

Reversed Out

No

Drill Collar Length

90

I. D.

2.25

in.

Weight Pipe Length

972

I. D.

2.76

in.

Drill Pipe Length

2923

I. D.

3.8

in.

Test Tool Length

15'

ft.

Tool Size

5 1/2

in.

Anchor Length

70'

ft.

Size

5 1/2

in.

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

in.

Blow:

Fair Blow Thru/out Both openings test

Recovered

260

ft. of

Oil Specked Watery Mud

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

Remarks:

RECEIVED
SEP 2 - 1980

Time Set Packer(s)

10:05

A.M.
P.M.

Time Started Off Bottom

12:05

A.M.
P.M.

Maximum Temperature

114°

Initial Hydrostatic Pressure

(A)

2267

P.S.I.

Initial Flow Period

Minutes

30

(B)

66

P.S.I.

to (C)

98

P.S.I.

Initial Closed In Period

Minutes

30

(D)

1232

P.S.I.

Final Flow Period

Minutes

30

(E)

131

P.S.I.

to (F)

175

P.S.I.

Final Closed In Period

Minutes

30

(G)

1232

P.S.I.

Final Hydrostatic Pressure

(H)

2193

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]

FIELD INVOICE

Open Hole Test

\$ 600.00

Misrun

\$

Straddle Test

\$

Jars

\$

Selective Zone

\$

Safety Joint

\$

Standby

\$

Evaluation

\$

Extra Packer

\$

Circ. Sub.

\$

Mileage

\$

Fluid Sampler

\$

Extra Charts

\$

TOTAL

\$ 600.00

WESTERN TESTING CO., INC.

Pressure Data

Date 8-28-80 Test Ticket No. 7107
 Recorder No. 4331 Capacity 4150 Location 4003 Ft.
 Clock No. _____ Elevation 2366 XB Well Temperature 114 °F

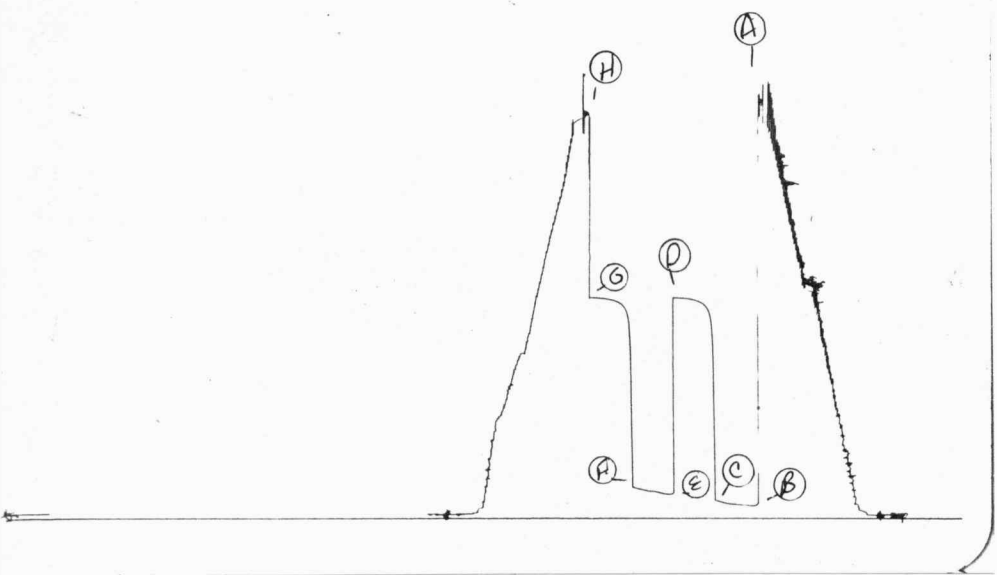
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2266</u> P.S.I.	<u>10:05</u> P	M
B First Initial Flow Pressure	<u>76</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>105</u> P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1232</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>138</u> P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>175</u> P.S.I.		
G Final Closed-in Pressure	<u>1230</u> P.S.I.		
H Final Hydrostatic Mud	<u>2196</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>11</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>11</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>105</u>	<u>0</u>	<u>138</u>	<u>0</u>	<u>175</u>
P 2	<u>5</u>	<u>3</u>	<u>1036</u>	<u>5</u>	<u>138</u>	<u>3</u>	<u>1077</u>
P 3	<u>10</u>	<u>6</u>	<u>1160</u>	<u>10</u>	<u>148</u>	<u>6</u>	<u>1164</u>
P 4	<u>15</u>	<u>9</u>	<u>1189</u>	<u>15</u>	<u>155</u>	<u>9</u>	<u>1189</u>
P 5	<u>20</u>	<u>12</u>	<u>1204</u>	<u>20</u>	<u>157</u>	<u>12</u>	<u>1206</u>
P 6	<u>25</u>	<u>15</u>	<u>1214</u>	<u>25</u>	<u>168</u>	<u>15</u>	<u>1215</u>
P 7	<u>30</u>	<u>18</u>	<u>1219</u>	<u>30</u>	<u>175</u>	<u>18</u>	<u>1221</u>
P 8	<u>35</u>	<u>21</u>	<u>1224</u>	<u>35</u>		<u>21</u>	<u>1223</u>
P 9	<u>40</u>	<u>24</u>	<u>1228</u>	<u>40</u>		<u>24</u>	<u>1225</u>
P 10	<u>45</u>	<u>27</u>	<u>1230</u>	<u>45</u>		<u>27</u>	<u>1227</u>
P 11	<u>50</u>	<u>30</u>	<u>1231</u>	<u>50</u>		<u>30</u>	<u>1229</u>
P 12	<u>55</u>	<u>33</u>	<u>1232</u>	<u>55</u>		<u>33</u>	<u>1230</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>	

SKT # 7107
I

7107



Company A. Scott Ritchie Lease & Well No. Pearson #1
Elevation 2366 Kelly Bushing Arbuckle Formations Effective Pay - Ft. Ticket No. 7107
Date 8/28/80 Sec. 11 Twp. 12S Range 22W County Trego State Kansas
Test Approved by Roger----- Western Representative Steve Michellich

Formation Test No. 9 Interval Tested from 4000 ft. to 4070 ft. Total Depth 4070 ft.
Packer Depth 4000 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4003 ft. Recorder Number 4331 Cap. 4150
Bottom Recorder Depth (Outside) 4006 ft. Recorder Number 13240 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Murfin Drilling Rig #15 Drill Collar Length 90 I. D. 2.25 in.
Mud Type starch Viscosity 50 Weight Pipe Length 972 I. D. 2.76 in.
Weight 10.1 Water Loss 18.2 cc. Drill Pipe Length 2923 I. D. 3.8 in.
Chlorides 39,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in.

Jars: Make None Serial Number - Anchor Length 70 ft. Size 5 1/2 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 FH in.

Blow: Fair blow throughout both openings.

Recovered 260 ft. of oil specked watery mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:05 ~~A.M.~~ P.M. Time Started Off Bottom 12:05 ~~A.M.~~ P.M. Maximum Temperature 114°
Initial Hydrostatic Pressure 2266 P.S.I. (A)
Initial Flow Period 30 Minutes (B) 76 P.S.I. to (C) 105 P.S.I.
Initial Closed In Period 33 Minutes (D) 1232 P.S.I.
Final Flow Period 30 Minutes (E) 138 P.S.I. to (F) 175 P.S.I.
Final Closed In Period 33 Minutes (G) 1230 P.S.I.
Final Hydrostatic Pressure 2196 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 8/28/80 Recorder No. 4331 Capacity 4150 Test Ticket No. 7107
 Clock No. --- Elevation 2366 Kelly Bushing Location 4003 Ft
 Well Temperature 114 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2266 P.S.I.	10:05P	M
B First Initial Flow Pressure	76 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	105 P.S.I.	30 Mins.	33 Mins.
D Initial Closed-in Pressure	1232 P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	138 P.S.I.	30 Mins.	33 Mins.
F Second Final Flow Pressure	175 P.S.I.		
G Final Closed-in Pressure	1230 P.S.I.		
H Final Hydrostatic Mud	2196 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>6</u> Inc.		Breakdown: <u>11</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>76</u>	<u>0</u>	<u>105</u>	<u>0</u>	<u>138</u>	<u>0</u>	<u>175</u>
P 2 <u>5</u>	<u>74</u>	<u>3</u>	<u>1036</u>	<u>5</u>	<u>138</u>	<u>3</u>	<u>1077</u>
P 3 <u>10</u>	<u>79</u>	<u>6</u>	<u>1160</u>	<u>10</u>	<u>148</u>	<u>6</u>	<u>1164</u>
P 4 <u>15</u>	<u>81</u>	<u>9</u>	<u>1189</u>	<u>15</u>	<u>155</u>	<u>9</u>	<u>1189</u>
P 5 <u>20</u>	<u>84</u>	<u>12</u>	<u>1204</u>	<u>20</u>	<u>157</u>	<u>12</u>	<u>1206</u>
P 6 <u>25</u>	<u>92</u>	<u>15</u>	<u>1214</u>	<u>25</u>	<u>168</u>	<u>15</u>	<u>1215</u>
P 7 <u>30</u>	<u>105</u>	<u>18</u>	<u>1219</u>	<u>30</u>	<u>175</u>	<u>18</u>	<u>1221</u>
P 8		<u>21</u>	<u>1224</u>			<u>21</u>	<u>1223</u>
P 9		<u>24</u>	<u>1228</u>			<u>24</u>	<u>1225</u>
P10		<u>27</u>	<u>1230</u>			<u>27</u>	<u>1227</u>
P11		<u>30</u>	<u>1231</u>			<u>30</u>	<u>1229</u>
P12		<u>33</u>	<u>1232</u>			<u>33</u>	<u>1230</u>
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							