



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 21855

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

Formation Cleveland Elevation 1340 K.B. Eff. Pay _____ Ft.

District Augusta

Date 3/30/77

Customer Order No. _____

COMPANY NAME Comio Oil Co

ADDRESS Box 153 Augusta KS 67010

LEASE AND WELL NO. Sams #1 COUNTY Cowley STATE KS Sec. 5 Twp. 31S Rge. 2E

Mail Inv. To _____ Co. Name _____ Address _____ No. Copies Requested 1

Mail Charts To _____ Address _____ No. Copies Requested 5

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 2463 to 2515 Total Depth 2515

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

Top Packer Depth _____ Ft. Size _____ Bottom Packer Depth 2463 Ft. Size 6 3/4

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

Tool Size 5 1/2 Tool Joint Size 4 1/2 FH Anchor Length 52 Ft. Size 5 1/2 O.P. Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2482 Ft. Clock No. 10167 Depth 2485 Ft. Clock No. 9102

Top Make Kuster Cap. 3150 No. 1565 Inside _____ Outside _____

Bottom Make Kuster Cap. 3200 No. 1561 Inside _____ Outside _____

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

Time Set Packer 7:28 A.M.

Tool Open I.F.P. From 7:30 A.M. to 8:00 A.M. Hr. 30 Min. From (B) 94 83 P.S.I. To (C) 94 87 P.S.I.

Tool Closed I.C.I.P. From 8:00 A.M. to 8:45 A.M. Hr. 45 Min. (D) 94 771 962 P.S.I.

Tool Open F.F.P. From 8:45 A.M. to 9:45 A.M. Hr. 60 Min. From (E) 101 P.S.I. To (F) 117 103 P.S.I.

Tool Closed F.C.I.P. From 9:45 A.M. to 10:45 A.M. Hr. 60 Min. (G) 1160 771 P.S.I.

Initial Hydrostatic Pressure (A) 1193 P.S.I. Final Hydrostatic Pressure (H) 1185 P.S.I. Maximum Temp. 104

INFORMATION

BLOW Fair blow decreasing, I.F.P. Fair & increasing last 20 min F.F.P.

Did Well Flow Yes No Recovery Total Ft. 180' drlg. mud.

Reversed Out Yes No Mud Type Chem Viscosity 39 Weight 9.2+ Water Loss 12.0 cc. Chlorides 1600

EXTRA EQUIPMENT: Type Circ. Sub. Pen Safety Joint _____ Jars: Size _____ In. Make _____ Ser. No. _____

Dual Packers NO Did Packer Hold? Yes Did Tool Plug? NO Where? _____

DRILLING CONTRACTOR White & Ellis #5 Length Drill Pipe 1442 ft. I.D. Drill Pipe 4.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 840 ft. I.D. Weight Pipe 2.8 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars 243 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 67 ft.

Remarks _____

INVOICE SECTION

Open Hole Test	\$ 380.00
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Misrun	\$
Evaluation	\$
Packer	\$
Circ. Sub.	\$
Total	\$ 380.00

COMPANY TERMS

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

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature]
Signature of Customer or his Authorized Representative David Baker

Western Representative Bill Baker

Operator's Time _____ Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 3-30-77 Test Ticket No. 21855
 Recorder No. 1565 Capacity 3150 Location 2482 Ft.
 Clock No. 10167 Elevation 1340 Kelly, Bushing Well Temperature 104 °F

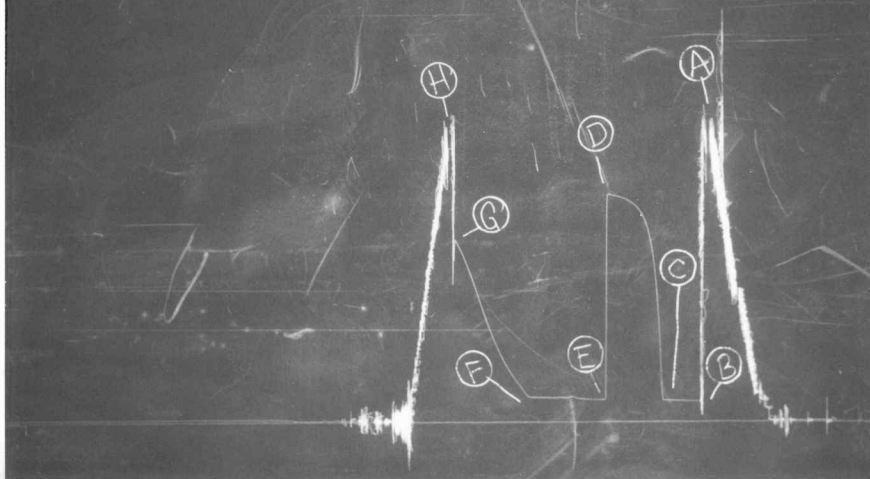
Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1197</u> P.S.I.		<u>7:28A</u> M	
B First Initial Flow Pressure	<u>83</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>87</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>962</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>94</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>103</u> P.S.I.			
G Final Closed-in Pressure	<u>771</u> P.S.I.			
H Final Hydrostatic Mud	<u>1160</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>15</u> Inc.		Breakdown: <u>12</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 0	83	0	87	0	94	0	103
P 2 5	83	3	326	5	82	3	119
P 3 10	84	6	574	10	92	6	143
P 4 15	85	9	715	15	95	9	165
P 5 20	86	12	798	20	96	12	188
P 6 25	87	15	846	25	103	15	214
P 7 30	87	18	881	30	101	18	241
P 8 35		21	904	35	103	21	269
P 9 40		24	919	40	100	24	304
P 10 45		27	929	45	101	27	340
P 11 50		30	939	50	102	30	379
P 12 55		33	945	55	102	33	420
P 13 60		36	951	60	103	36	466
P 14		39	956	65		39	514
P 15		42	959	70		42	558
P 16		45	962	75		45	607
P 17		48		80		48	650
P 18		51		85		51	693
P 19		54		90		54	732
P 20		57				57	762
		60				60	771

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WESTERN TESTING CO., INC.

Pressure Data

Date 3-30-77

Test Ticket No. 21855

Recorder No. 1565 Capacity 3150 Location 2482 Ft.

Clock No. 10167 Elevation 1340 Kelly Bushing Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1197</u>	P.S.I.	<u>7:28</u>	<u>A M</u>
B First Initial Flow Pressure	<u>83</u>	P.S.I.	<u>30</u>	<u>Mins. 30 Mins.</u>
C First Final Flow Pressure	<u>87</u>	P.S.I.	<u>45</u>	<u>Mins. 45 Mins.</u>
D Initial Closed-in Pressure	<u>962</u>	P.S.I.	<u>60</u>	<u>Mins. 60 Mins.</u>
E Second Initial Flow Pressure	<u>94</u>	P.S.I.	<u>60</u>	<u>Mins. 60 Mins.</u>
F Second Final Flow Pressure	<u>103</u>	P.S.I.		
G Final Closed-in Pressure	<u>771</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1160</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>15</u> Inc.		Breakdown: <u>12</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>0</u>	<u>87</u>	<u>0</u>	<u>94</u>	<u>0</u>	<u>103</u>
P 2	<u>5</u>	<u>3</u>	<u>326</u>	<u>5</u>	<u>82</u>	<u>3</u>	<u>119</u>
P 3	<u>10</u>	<u>6</u>	<u>574</u>	<u>10</u>	<u>92</u>	<u>6</u>	<u>143</u>
P 4	<u>15</u>	<u>9</u>	<u>715</u>	<u>15</u>	<u>95</u>	<u>9</u>	<u>165</u>
P 5	<u>20</u>	<u>12</u>	<u>798</u>	<u>20</u>	<u>96</u>	<u>12</u>	<u>188</u>
P 6	<u>25</u>	<u>15</u>	<u>846</u>	<u>25</u>	<u>103</u>	<u>15</u>	<u>214</u>
P 7	<u>30</u>	<u>18</u>	<u>881</u>	<u>30</u>	<u>101</u>	<u>18</u>	<u>241</u>
P 8		<u>21</u>	<u>904</u>	<u>35</u>	<u>103</u>	<u>21</u>	<u>269</u>
P 9		<u>24</u>	<u>919</u>	<u>40</u>	<u>100</u>	<u>24</u>	<u>304</u>
P 10		<u>27</u>	<u>929</u>	<u>45</u>	<u>101</u>	<u>27</u>	<u>340</u>
P 11		<u>30</u>	<u>939</u>	<u>50</u>	<u>102</u>	<u>30</u>	<u>379</u>
P 12		<u>33</u>	<u>945</u>	<u>55</u>	<u>102</u>	<u>33</u>	<u>420</u>
P 13		<u>36</u>	<u>951</u>	<u>60</u>	<u>103</u>	<u>36</u>	<u>466</u>
P 14		<u>39</u>	<u>956</u>			<u>39</u>	<u>514</u>
P 15		<u>42</u>	<u>959</u>			<u>42</u>	<u>558</u>
P 16		<u>45</u>	<u>962</u>			<u>45</u>	<u>607</u>
P 17						<u>48</u>	<u>650</u>
P 18						<u>51</u>	<u>693</u>
P 19						<u>54</u>	<u>732</u>
P 20						<u>57</u>	<u>762</u>
						<u>60</u>	<u>771</u>



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

Company Camio Oil Co. Lease & Well No. Sams #1
Location 1340 Kelly Bushing Formation Cleveland Effective Pay - Ft. Ticket No. 21855
Date 3-30-77 Sec. 5 Twp. 31S Range 6N County Cowley State Kansas
Test Approved by Doug Baker Western Representative Bill Baker

Formation Test No. 1 O.K. Misrun Interval Tested From 2463' to 2515' Total Depth 2515'
Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth Ft. Size Bottom Packer Depth 2463 Ft. Size 6 3/4
Riddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size
Tool Joint Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 52 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS
Depth 2482 Ft. Clock No. 10167 Inside
Top Make Kuster Cap. 3150 No. 1565 Outside
Blow Straddle: Depth Rec. No. Clock No. Outside
Depth 2485 Ft. Clock No. 9102 Inside
Bottom Make Kuster Cap. 3200 No. 1561 Outside
Depth Ft. Rec. No. Clock No. Outside

Time Set Packer 7:28 AM
Tool Open I.F.P. From 7:30 AM to 8:00 AM - Hr. 30 Min. From (B) 83 P.S.I. To (C) 87 P.S.I.
Tool Closed I.C.I.P. From 8:00 M. to 8:45 AM - Hr. 45 Min (D) 962 P.S.I.
Tool Open F.F.P. From 8:45 AM to 9:45 AM 1 Hr. - Min. From (E) 94 P.S.I. To (F) 103 P.S.I.
Tool Closed F.C.I.P. From 9:45 M. to 10:45 M. 1 Hr. - Min. (G) 771 P.S.I.
Initial Hydrostatic Pressure (A) 1197 P.S.I. Final Hydrostatic Pressure (H) 1160 P.S.I. Maximum Temp. 104

INFORMATION

Flow Fair blow decreasing on initial flow period. Fair blow increasing on last 20 minutes on final flow period.

Initial Well Flow - Yes No Recovery Total Ft. 180' drilling mud.

Reversed Out - Yes No Mud Type chem Viscosity 39 Weight 9.2 Water Loss 12.0 cc. Chlorides 1,600 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size In. Make Ser. No.

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

DRILLING CONTRACTOR White & Ellis Drlg. Length Drill Pipe? 1442 Ft. I.D. Drill Pipe 4.8 In. Tool Joint Size 4 1/2 IF In.

Length Weight Pipe 840 Ft. I.D. Weight Pipe 2.8 In. Tool Joint Size 4 1/2 IF In. Length Drill Collars 273 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4H90 In. Length D.S.T. Tool 67 Ft.

Remarks: