



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

Company Robert E. Campbell Oil & Gas Operations Lease & Well No. Bomholt A-#1
Elevation 1480 Kelly Bush. Formation Kansas City Effective Pay - Ft. Ticker No. 21889
Date 8-31-77 Sec. 24 Twp. 27S Range 5W County Kingman State Kansas
Test Approved by Innes Phillips Western Representative Norman Allen
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 3330' to 3364' Total Depth 3364'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 3325 Ft. Size 6 3/4 Bottom Packer Depth 3330 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 34 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3357 Ft. Clock No. 9727 Depth 3360 Ft. Clock No. 6800
Top Make Kuster Cap. 4500 No. 3085 ~~Inside~~ Outside Bottom Make Kuster Cap. 4200 No. 1559 ~~Inside~~ Outside
Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside
Time Set Packer 9:28P M
Tool Open I.F.P. From 9:30P M. to 10:00P M. - Hr. 30 Min. From (B) 36 P.S.I. To (C) 55 P.S.I.
Tool Closed I.C.I.P. From 10:00P M. to 10:30P M. - Hr. 30 Min (D) 1303 P.S.I.
Tool Open F.F.P. From 10:30P M. to 11:00P M. - Hr. 30 Min. From (E) 81 P.S.I. To (F) 93 P.S.I.
Tool Closed F.C.I.P. From 11:00P M. to 11:30P M. - Hr. 30 Min. (G) 1276 P.S.I.
Initial Hydrostatic Pressure (A) 1603 P.S.I. Final Hydrostatic Pressure (H) 1592 P.S.I. Maximum Temp. 108

INFORMATION

BLOW Weak blow throughout test.

Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 180' muddy salt water

Reversed Out - Yes ☒ No ☐ Mud Type Gel Viscosity 35 Weight 9.2 Water Loss - cc. Chlorides 21,000 p.p.m.

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

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

DRILLING CONTRACTOR Graves Drilg Co. Length Drill Pipe? 2980 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 150 I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 180 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4H-90 In. Length D.S.T. Tool 54 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 8-31-77 Test Ticket No. 21889
 Recorder No. 3085 Capacity 4500 Location 3357 Ft.
 Clock No. 9727 Elevation 1480 Kelly Bushing Well Temperature 108 °F

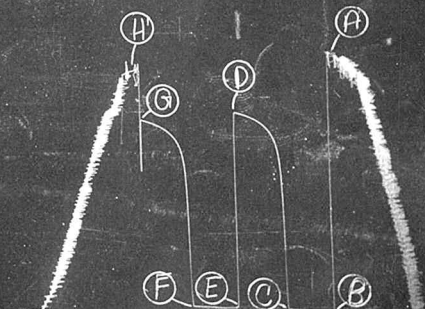
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1603</u>	P.S.I.	<u>9:28P</u>	<u>M</u>
B First Initial Flow Pressure	<u>36</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
C First Final Flow Pressure	<u>55</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
D Initial Closed-in Pressure	<u>1303</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
E Second Initial Flow Pressure	<u>81</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
F Second Final Flow Pressure	<u>93</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
G Final Closed-in Pressure	<u>1276</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1592</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>7</u> Inc.		Breakdown: <u>13</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>36</u>	<u>0</u>	<u>55</u>	<u>0</u>	<u>81</u>	<u>0</u>	<u>93</u>
P 2 <u>5</u>	<u>25</u>	<u>3</u>	<u>849</u>	<u>5</u>	<u>72</u>	<u>3</u>	<u>563</u>
P 3 <u>10</u>	<u>29</u>	<u>6</u>	<u>1065</u>	<u>10</u>	<u>73</u>	<u>6</u>	<u>1023</u>
P 4 <u>15</u>	<u>32</u>	<u>9</u>	<u>1139</u>	<u>15</u>	<u>77</u>	<u>9</u>	<u>1103</u>
P 5 <u>20</u>	<u>28</u>	<u>12</u>	<u>1179</u>	<u>20</u>	<u>82</u>	<u>12</u>	<u>1150</u>
P 6 <u>25</u>	<u>43</u>	<u>15</u>	<u>1209</u>	<u>25</u>	<u>85</u>	<u>15</u>	<u>1178</u>
P 7 <u>30</u>	<u>49</u>	<u>18</u>	<u>1230</u>	<u>30</u>	<u>89</u>	<u>18</u>	<u>1200</u>
P 8 <u>35</u>	<u>55</u>	<u>21</u>	<u>1249</u>	<u>35</u>	<u>93</u>	<u>21</u>	<u>1217</u>
P 9		<u>24</u>	<u>1261</u>			<u>24</u>	<u>1233</u>
P10		<u>27</u>	<u>1274</u>			<u>27</u>	<u>1245</u>
P11		<u>30</u>	<u>1284</u>			<u>30</u>	<u>1255</u>
P12		<u>33</u>	<u>1292</u>			<u>33</u>	<u>1263</u>
P13		<u>36</u>	<u>1303</u>			<u>36</u>	<u>1271</u>
P14						<u>39</u>	<u>1276</u>
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 21889

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2085



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Company Robert E. Campbell Oil & Gas Operations Lease & Well No. Bomholt A-#1
Elevation 1469 Ground Level Formation Mississippi Effective Pay - Ft. Ticker No. 23241
Date 9-2-77 Sec. 24 Twp. 27S Range 5 W County Kingman State Kansas
Test Approved by Innes Phillips Western Representative Sam McClune
Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 3670' to 3780' Total Depth 3780'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 3665 Ft. Size 6 3/4 Bottom Packer Depth 3670 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 110 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3690 Ft. Clock No. 6896 Depth 3776 Ft. Clock No. 10167
Top Make Kuster Cap. 4200 No. 1558 Inside ☒ Outside ☐ Bottom Make Kuster Cap. 3150 No. 1564 Inside ☒ Outside ☐
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐ Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐
Time Set Packer 11:33 M
Tool Open I.F.P. From 11:35 M. to 12:05 M. - Hr. 30 Min. From (B) 112 P.S.I. To (C) 141 P.S.I.
Tool Closed I.C.I.P. From 12:05 M. to 12:50 M. - Hr. 45 Min (D) 1207 P.S.I.
Tool Open F.F.P. From 12:50 M. to 1:35 M. - Hr. 45 Min. From (E) 167 P.S.I. To (F) 308 P.S.I.
Tool Closed F.C.I.P. From 1:35 M. to 2:35 M. - Hr. 60 Min. (G) 1192 P.S.I.
Initial Hydrostatic Pressure (A) 1831 P.S.I. Final Hydrostatic Pressure (H) 1814 P.S.I. Maximum Temp. 121

INFORMATION

BLOW Strong throughout test. See attached sheet for gas measurements.

Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 682' water, gas cut mud. 3098' gas in pipe. (43,000 p.p.m.)

Reversed Out ☐ Yes ☒ No Mud Type Starch Viscosity 32 Weight 9.2 Water Loss ☐ cc. Chlorides 18,000 p.p.m.

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

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

DRILLING CONTRACTOR Graves Drllg Length Drill Pipe 3460 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 120 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 60 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 130 Ft.

Remarks: 1



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GAS FLOW REPORT

Date 9-2-77 Ticket 23241 Company Robert E. Campbell Oil & Gas Operations
Well Name and No. Bomholt A-#1 Dst No. 2 Interval Tested 3670' - 3780'
County Kingman State Kansas Sec. 24 1/2 Twp. 27S Rg. 5W

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

Gas to surface on ICIP						

SECOND FLOW

12:00	10 min.	3" of water		3/4" orifice		24,500 C.F.P.D.
12:10PM	20 min.	not enough to guage		not enough to guage		not enough to guage
12:20PM	30 min.	not enough to guage		not enough to guage		not enough to guage
12:30PM	40 min.	8" of water		1/4" orifice		4,760 C.F.P.D.
12:35PM	45 min.	8" of water		1/4" orifice		4,760 C.F.P.D.
Not enough gas for Sample bottle.						

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 Robert E. Campbell Oil & Gas Oper.

Authorized by Innes Phillips

WESTERN TESTING CO., INC.

Pressure Data

Date 9-2-77 Test Ticket No. 23241
 Recorder No. 1558 Capacity 4200 Location 3690 Ft.
 Clock No. 6896 Elevation 1469 Ground Level Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1831</u> P.S.I.	Open Tool	<u>11:33</u> M	
B First Initial Flow Pressure	<u>112</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>141</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>1207</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>167</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>54</u> Mins.
F Second Final Flow Pressure	<u>308</u> P.S.I.			
G Final Closed-in Pressure	<u>1192</u> P.S.I.			
H Final Hydrostatic Mud	<u>1814</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>16</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>18</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>112</u>	<u>0</u>	<u>141</u>	<u>0</u>	<u>167</u>	<u>0</u>	<u>308</u>
P 2 <u>5</u>	<u>115</u>	<u>3</u>	<u>188</u>	<u>5</u>	<u>163</u>	<u>3</u>	<u>506</u>
P 3 <u>10</u>	<u>154</u>	<u>6</u>	<u>247</u>	<u>10</u>	<u>168</u>	<u>6</u>	<u>594</u>
P 4 <u>15</u>	<u>159</u>	<u>9</u>	<u>323</u>	<u>15</u>	<u>300</u>	<u>9</u>	<u>650</u>
P 5 <u>20</u>	<u>141</u>	<u>12</u>	<u>411</u>	<u>20</u>	<u>306</u>	<u>12</u>	<u>750</u>
P 6 <u>25</u>	<u>141</u>	<u>15</u>	<u>521</u>	<u>25</u>	<u>315</u>	<u>15</u>	<u>803</u>
P 7 <u>30</u>	<u>141</u>	<u>18</u>	<u>616</u>	<u>30</u>	<u>319</u>	<u>18</u>	<u>856</u>
P 8		<u>21</u>	<u>717</u>	<u>35</u>	<u>320</u>	<u>21</u>	<u>906</u>
P 9		<u>24</u>	<u>810</u>	<u>40</u>	<u>307</u>	<u>24</u>	<u>946</u>
P 10		<u>27</u>	<u>892</u>	<u>45</u>	<u>308</u>	<u>27</u>	<u>983</u>
P 11		<u>30</u>	<u>964</u>			<u>30</u>	<u>1020</u>
P 12		<u>33</u>	<u>1027</u>			<u>33</u>	<u>1049</u>
P 13		<u>36</u>	<u>1076</u>			<u>36</u>	<u>1079</u>
P 14		<u>39</u>	<u>1125</u>			<u>39</u>	<u>1105</u>
P 15		<u>42</u>	<u>1161</u>			<u>42</u>	<u>1125</u>
P 16		<u>45</u>	<u>1189</u>			<u>45</u>	<u>1146</u>
P 17		<u>48</u>	<u>1207</u>			<u>48</u>	<u>1166</u>
P 18						<u>51</u>	<u>1180</u>
P 19						<u>54</u>	<u>1192</u>
P 20							

Tkt# 23241

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