

Company Range Oil Company, Inc. Lease & Well No. Bahruth #2
 Elevation 1098 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. 13306
 Date 5/ 6 /82 Sec. 9 Twp. 34S Range 3E County Cowley State Kansas
 Test Approved by H. G. McMahon III Western Representative Kenny Kirkendall

Formation Test No. 1 Interval Tested from 2586 ft. to 2594 ft. Total Depth 2594 ft.
 Packer Depth 2586 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2581 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) AP 2576 ft. Recorder Number 2605 Cap. 4150
 Bottom Recorder Depth (Outside) 2590 ft. Recorder Number 1049 Cap. 4250
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Drilling Rig #2 Drill Collar Length 150 I. D. - in.
 Mud Type chemical Viscosity 39 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 13 cc. Drill Pipe Length - I. D. - in.
 Chlorides 2,500 P.P.M. Test Tool Length 25 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 8 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 XH in.

Blow: Very weak died in three minutes. Very weak and died in one minute on final flow period.

Recovered 1 ft. of oil cut mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Read chart #1049

Time Set Packer(s)	<u>7:20</u>	A.M. P.M.	Time Started Off Bottom	<u>-</u>	A.M. P.M.	Maximum Temperature	<u>100°</u>
Initial Hydrostatic Pressure			(A)	<u>1277</u>	P.S.I.		
Initial Flow Period			Minutes	<u>30</u>	(B)	<u>21</u>	P.S.I. to (C) <u>21</u> P.S.I.
Initial Closed In Period			Minutes	<u>30</u>	(D)	<u>28</u>	P.S.I.
Final Flow Period			Minutes	<u>30</u>	(E)	<u>20</u>	P.S.I. to (F) <u>20</u> P.S.I.
Final Closed In Period			Minutes	<u>30</u>	(G)	<u>28</u>	P.S.I.
Final Hydrostatic Pressure			(H)	<u>1273</u>	P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 5/6/82 Recorder No. 1049 Capacity 4250 Test Ticket No. 13306
 Location 1098 Kelly Bushing Well Temperature 100 °F
 Clock No. -- Elevation -- Fr.

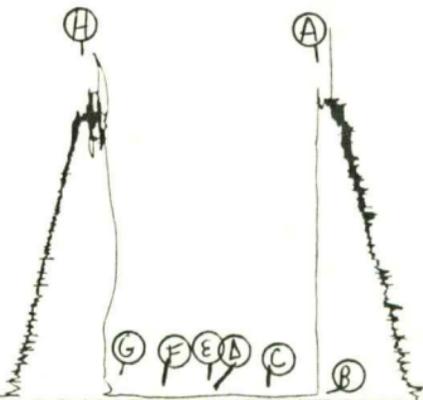
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1277</u>	P.S.I.	<u>7:20</u>	<u>M</u>
B First Initial Flow Pressure	<u>21</u>	P.S.I.	<u>30</u>	<u>Mins.</u> <u>30</u> Mins.
C First Final Flow Pressure	<u>21</u>	P.S.I.	<u>30</u>	<u>Mins.</u> <u>30</u> Mins.
D Initial Closed-in Pressure	<u>28</u>	P.S.I.	<u>30</u>	<u>Mins.</u> <u>30</u> Mins.
E Second Initial Flow Pressure	<u>20</u>	P.S.I.	<u>30</u>	<u>Mins.</u> <u>30</u> Mins.
F Second Final Flow Pressure	<u>20</u>	P.S.I.	<u>30</u>	<u>Mins.</u> <u>30</u> Mins.
G Final Closed-in Pressure	<u>28</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1273</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	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.							
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>21</u>	<u>0</u>	<u>21</u>	<u>0</u>	<u>20</u>	<u>0</u>	<u>20</u>	
P 2 <u>5</u>	<u>21</u>	<u>3</u>	<u>22</u>	<u>5</u>	<u>20</u>	<u>3</u>	<u>21</u>	
P 3 <u>10</u>	<u>21</u>	<u>6</u>	<u>23</u>	<u>10</u>	<u>20</u>	<u>6</u>	<u>22</u>	
P 4 <u>15</u>	<u>21</u>	<u>9</u>	<u>25</u>	<u>15</u>	<u>20</u>	<u>9</u>	<u>24</u>	
P 5 <u>20</u>	<u>21</u>	<u>12</u>	<u>27</u>	<u>20</u>	<u>20</u>	<u>12</u>	<u>26</u>	
P 6 <u>25</u>	<u>21</u>	<u>15</u>	<u>29</u>	<u>25</u>	<u>20</u>	<u>15</u>	<u>28</u>	
P 7 <u>30</u>	<u>21</u>	<u>18</u>	<u>30</u>	<u>30</u>	<u>20</u>	<u>18</u>	<u>29</u>	
P 8		<u>21</u>	<u>31</u>			<u>21</u>	<u>30</u>	
P 9		<u>24</u>	<u>31</u>			<u>24</u>	<u>32</u>	
P10		<u>27</u>	<u>31</u>			<u>27</u>	<u>32</u>	
P11		<u>30</u>	<u>31</u>			<u>30</u>	<u>32</u>	
P12								
P13								
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P19								
P20								

TKT # 13306 1049

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Company Range Oil Company, Inc. Lease & Well No. Bahruth #2
 Elevation 1098 Kelly Bushing Layton Effective Pay - Ft. Ticket No. 13307
 Date 5/ 7/82 Sec. 9 Twp. 34S Range 3E County Cowley State Kansas
 Test Approved by H. G. McMahon III Western Representative Kenny Kirkendall

Formation Test No. 2 Interval Tested from 2588 ft. to 2598 ft. Total Depth 2598 ft.
 Packer Depth 2588 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2583 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2592 ft. Recorder Number 2605 Cap. 4150
 Bottom Recorder Depth (Outside) 2596 ft. Recorder Number 1049 Cap. 4250
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Drilling Rig #2 Drill Collar Length 150 I. D. - in.
 Mud Type chemical Viscosity 40 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 12.2 cc. Drill Pipe Length - I. D. - in.
 Chlorides 2,500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 10 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 XH in.

Blow: Weak blow throughout test.

Recovered 60 ft. of watery mud very slightly oil and gas cut
 Recovered - ft. of 4% oil; 56% water; 40% mud Chlorides 18,000 ppm
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: -

Time Set Packer(s)	---	A.M. P.M.	Time Started Off Bottom	--	A.M. P.M.	Maximum Temperature	100°
Initial Hydrostatic Pressure				(A)	1298	P.S.I.	
Initial Flow Period	Minutes		30	(B)	59	P.S.I. to (C)	59 P.S.I.
Initial Closed In Period	Minutes		30	(D)	174	P.S.I.	
Final Flow Period	Minutes		45	(E)	72	P.S.I. to (F)	72 P.S.I.
Final Closed In Period	Minutes		45	(G)	553	P.S.I.	
Final Hydrostatic Pressure				(H)	1288	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 5/7/82 Recorder No. 2605 Capacity 4150 Test Ticket No. 13307
 Location 2592 Ft. Elevation 1098 Kelly Bushing Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1298	P.S.I.	--	M
B First Initial Flow Pressure	59	P.S.I.	30	30
C First Final Flow Pressure	59	P.S.I.	30	30
D Initial Closed-in Pressure	174	P.S.I.	45	45
E Second Initial Flow Pressure	72	P.S.I.	45	45
F Second Final Flow Pressure	72	P.S.I.		
G Final Closed-in Pressure	553	P.S.I.		
H Final Hydrostatic Mud	1288	P.S.I.		

PRESSURE BREAKDOWN

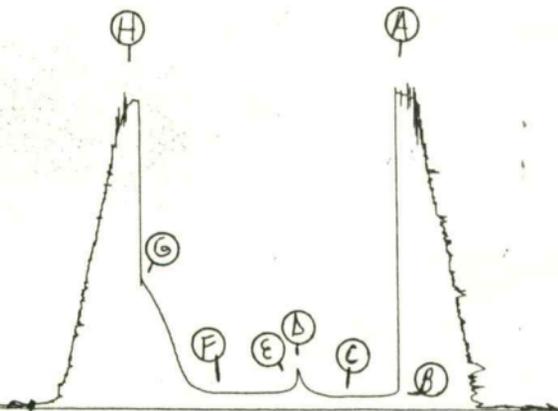
Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of 5 mins. and a final inc. of 0 Min.		of 3 mins. and a final inc. of 0 Min.		of 5 mins. and a final inc. of 0 Min.		of 3 mins. and a final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 0	59	0	59	0	72	0	72	
P 2 5	59	3	58	5	72	3	72	
P 3 10	59	6	57	10	72	6	75	
P 4 15	59	9	58	15	72	9	79	
P 5 20	59	12	62	20	72	12	88	
P 6 25	59	15	68	25	72	15	98	
P 7 30	59	18	75	30	72	18	112	
P 8		21	84	35	72	21	146	
P 9		24	106	40	72	24	202	
P10		27	154	45	72	27	275	
P11		30	174			30	329	
P12						33	380	
P13						36	427	
P14						39	469	
P15						42	504	
P16						45	553	
P17								
P18								
P19								
P20								

DST
#2

TRT # 13307

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Company Range Oil Company, Inc. Lease & Well No. Bahruth #2
 Elevation 1098 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 13308
 Date 5/8/82 Sec. 9 Twp. 34S Range 3E County Cowley State Kansas
 Test Approved by H. G. McMahon III Western Representative Kenny Kirkendall

Formation Test No. 3 Interval Tested from 2814 ft. to 2830 ft. Total Depth 2830 ft.
 Packer Depth 2814 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2809 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2820 ft. Recorder Number 2605 Cap. 4150
 Bottom Recorder Depth (Outside) 2824 ft. Recorder Number 1049 Cap. 4250
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor ROCI Rig #2 Drill Collar Length 150 I. D. - in.
 Mud Type Chemical Viscosity 43 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 12.8 cc. Drill Pipe Length - I. D. - in.
 Chlorides 3200 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 16 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: Weak blow died in 20 minutes on initial flow period. No blow on final flow period.

Recovered 3 ft. of mud with rainbow of oil
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s)	<u>11:00</u>	<u>A.M.</u>	Time Started Off Bottom	<u>12:30</u>	<u>A.M.</u>	Maximum Temperature	<u>105</u>
		<u>P.M.</u>			<u>P.M.</u>		
Initial Hydrostatic Pressure			(A)	<u>1416</u>		<u>P.S.I.</u>	
Initial Flow Period			Minutes	<u>30</u>	(B)	<u>38</u>	<u>P.S.I.</u> to (C) <u>38</u> <u>P.S.I.</u>
Initial Closed In Period			Minutes	<u>30</u>	(D)	<u>36</u>	<u>P.S.I.</u>
Final Flow Period			Minutes	<u>30</u>	(E)	<u>32</u>	<u>P.S.I.</u> to (F) <u>32</u> <u>P.S.I.</u>
Final Closed In Period			Minutes	<u>27</u>	(G)	<u>30</u>	<u>P.S.I.</u>
Final Hydrostatic Pressure			(H)	<u>1416</u>		<u>P.S.I.</u>	

WESTERN TESTING CO., INC.
Pressure Data

Date 5/8/82 Test Ticket No. 13308
 Recorder No. 2605 Capacity 4150 Location 2820 Ft.
 Clock No. - Elevation 1098 Kelly Bushing Well Temperature 105 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1416</u> P.S.I.	Open Tool	<u>11:00P</u>	<u>M</u>
B First Initial Flow Pressure	<u>38</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>38</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>36</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>32</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>32</u> P.S.I.			
G Final Closed-in Pressure	<u>30</u> P.S.I.			
H Final Hydrostatic Mud	<u>1416</u> P.S.I.			

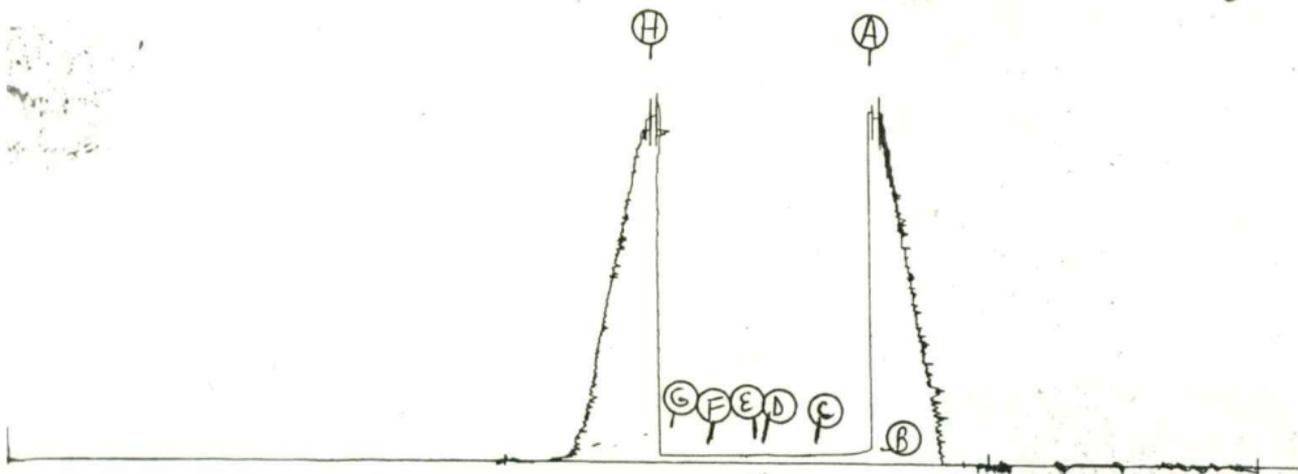
PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>38</u>	<u>0</u>	<u>38</u>	<u>0</u>	<u>32</u>	<u>0</u>	<u>32</u>	<u>0</u>
P 2	<u>38</u>	<u>5</u>	<u>36</u>	<u>3</u>	<u>32</u>	<u>5</u>	<u>32</u>	<u>3</u>
P 3	<u>38</u>	<u>10</u>	<u>35</u>	<u>6</u>	<u>32</u>	<u>10</u>	<u>32</u>	<u>6</u>
P 4	<u>38</u>	<u>15</u>	<u>34</u>	<u>9</u>	<u>32</u>	<u>15</u>	<u>32</u>	<u>9</u>
P 5	<u>38</u>	<u>20</u>	<u>33</u>	<u>12</u>	<u>32</u>	<u>20</u>	<u>32</u>	<u>12</u>
P 6	<u>38</u>	<u>25</u>	<u>33</u>	<u>15</u>	<u>32</u>	<u>25</u>	<u>32</u>	<u>15</u>
P 7	<u>38</u>	<u>30</u>	<u>33</u>	<u>18</u>	<u>32</u>	<u>30</u>	<u>32</u>	<u>18</u>
P 8			<u>33</u>	<u>21</u>				<u>21</u>
P 9			<u>34</u>	<u>24</u>				<u>24</u>
P10			<u>35</u>	<u>27</u>				<u>27</u>
P11			<u>36</u>	<u>30</u>				
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TKT # 13308

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Company Range Oil Company, Inc. Lease & Well No. Bahruth #2
 Elevation 1098 Kelly Bushing Cleveland Formation Effective Pay - Ft. Ticket No. 13309
 Date 5/8/82 Sec. 9 Twp. 34S Range 3E County Cowley State Kansas
 Test Approved by H. G. McMahon III Western Representative Kenny Kirkendall

Formation Test No. 4 Interval Tested from 2940 ft. to 2950 ft. Total Depth 2950 ft.
 Packer Depth 2940 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2935 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2944 ft. Recorder Number 2605 Cap. 4150
 Bottom Recorder Depth (Outside) 2948 ft. Recorder Number 1049 Cap. 4250
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor ROCI Rig #2 Drill Collar Length 150 I. D. - in.
 Mud Type Chemical Viscosity 45 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 11.2 cc. Drill Pipe Length - I. D. - in.
 Chlorides 2500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 10 ft. Size 5 1/2 in.
 Did Well Flow? - Reversed Out - 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 XH in.

Blow: Weak building to fair. Decreasing at end of final flow period.

Recovered 300 ft. of gas in pipe
 Recovered 5 ft. of heavy oil & gas cut mud
 Recovered 60 ft. of very slightly oil & gas cut mud
 Recovered 60 ft. of salt water Chlorides 65,000 PPM
 Recovered ft. of

Remarks:

Time Set Packer(s) 4:00 A.M. P.M. Time Started Off Bottom - A.M. P.M. Maximum Temperature 107
 Initial Hydrostatic Pressure (A) 1452 P.S.I.
 Initial Flow Period Minutes 30 (B) 39 P.S.I. to (C) 45 P.S.I.
 Initial Closed In Period Minutes 30 (D) 596 P.S.I.
 Final Flow Period Minutes 60 (E) 87 P.S.I. to (F) 94 P.S.I.
 Final Closed In Period Minutes 60 (G) 690 P.S.I.
 Final Hydrostatic Pressure (H) 1436 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 5/8/82 Test Ticket No. 13309
 Recorder No. 2605 Capacity 4150 Location 2944 Ft.
 Clock No. - Elevation 1098 Kelly Bushing Well Temperature 107 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1452</u> P.S.I.	Open Tool	<u>4:00</u> M	
B First Initial Flow Pressure	<u>39</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>45</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>596</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>87</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>94</u> P.S.I.			
G Final Closed-in Pressure	<u>690</u> P.S.I.			
H Final Hydrostatic Mud	<u>1436</u> P.S.I.			

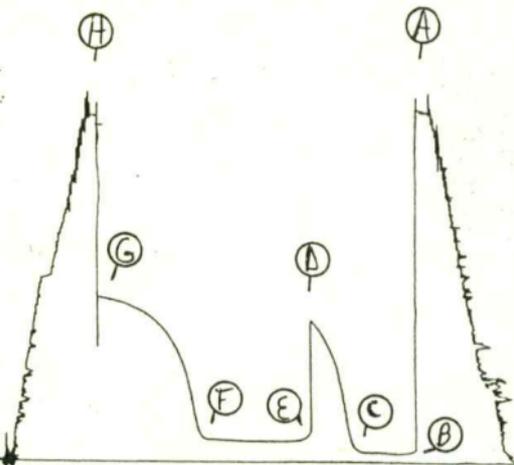
PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>39</u>	<u>0</u>	<u>45</u>	<u>0</u>	<u>87</u>	<u>0</u>	<u>94</u>
P 2	<u>39</u>	<u>3</u>	<u>54</u>	<u>5</u>	<u>87</u>	<u>3</u>	<u>126</u>
P 3	<u>39</u>	<u>6</u>	<u>78</u>	<u>10</u>	<u>87</u>	<u>6</u>	<u>224</u>
P 4	<u>41</u>	<u>9</u>	<u>182</u>	<u>15</u>	<u>87</u>	<u>9</u>	<u>337</u>
P 5	<u>43</u>	<u>12</u>	<u>296</u>	<u>20</u>	<u>87</u>	<u>12</u>	<u>407</u>
P 6	<u>44</u>	<u>15</u>	<u>390</u>	<u>25</u>	<u>87</u>	<u>15</u>	<u>457</u>
P 7	<u>45</u>	<u>18</u>	<u>451</u>	<u>30</u>	<u>87</u>	<u>18</u>	<u>499</u>
P 8		<u>21</u>	<u>497</u>	<u>35</u>	<u>87</u>	<u>21</u>	<u>534</u>
P 9		<u>24</u>	<u>537</u>	<u>40</u>	<u>89</u>	<u>24</u>	<u>561</u>
P10		<u>27</u>	<u>568</u>	<u>45</u>	<u>91</u>	<u>27</u>	<u>584</u>
P11		<u>30</u>	<u>596</u>	<u>50</u>	<u>92</u>	<u>30</u>	<u>603</u>
P12				<u>55</u>	<u>93</u>	<u>33</u>	<u>620</u>
P13				<u>60</u>	<u>94</u>	<u>36</u>	<u>634</u>
P14						<u>39</u>	<u>644</u>
P15						<u>42</u>	<u>654</u>
P16						<u>45</u>	<u>664</u>
P17						<u>48</u>	<u>671</u>
P18						<u>51</u>	<u>676</u>
P19						<u>54</u>	<u>682</u>
P20						<u>57</u>	<u>686</u>
						<u>60</u>	<u>690</u>

TKT # 13309

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Company Range Oil Company, Inc. Lease & Well No. Bahruth #2
 Elevation 1098 Kelly Bushing Origin Mississippi Effective Pay - Ft. Ticket No. 13310
 Date 5/10/82 Sec. 9 Twp. 34S Range 3E County Butler State Kansas
 Test Approved by H. G. Mahon III Western Representative Kenny Kirkendall

Formation Test No. 5 Interval Tested from 3335 ft. to 3350 ft. Total Depth 3350 ft.
 Packer Depth 3335 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3330 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3345 ft. Recorder Number 2605 Cap. 4150
 Bottom Recorder Depth (Outside) 3340 ft. Recorder Number 1049 Cap. 4250
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Drilling Rig #2 Drill Collar Length 150 I. D. - in.
 Mud Type chemical Viscosity 42 Weight Pipe Length - I. D. - in.
 Weight 9.8 Water Loss 12 cc. Drill Pipe Length - I. D. - in.
 Chlorides 4,500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 15 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out - 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 XH in.

Blow: Weak blow building to fair blow on initial flow period. Fair blow throughout final flow period.

Recovered 300 ft. of gas in pipe
 Recovered 150 ft. of muddy salt water with oil spots on top of tool
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 9:40 ~~P.M.~~ A.M. Time Started Off Bottom - ~~P.M.~~ A.M. Maximum Temperature 112°
 Initial Hydrostatic Pressure 1660 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 21 P.S.I. to (C) 24 P.S.I.
 Initial Closed In Period 30 Minutes (D) 705 P.S.I.
 Final Flow Period 60 Minutes (E) 65 P.S.I. to (F) 69 P.S.I.
 Final Closed In Period 93 Minutes (G) 812 P.S.I.
 Final Hydrostatic Pressure 1609 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 5/10/82

Test Ticket No. 13310

Recorder No. 2605

Capacity 4150

Location 3345 Ft.

Clock No. -- Elevation 1098 Kelly Bushing

Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1660</u> P.S.I.	Open Tool	<u>9:40</u> A	M
B. First Initial Flow Pressure	<u>21</u> P.S.I.	First Flow Pressure	<u>30</u> Mins	<u>30</u> Mins.
C. First Final Flow Pressure	<u>24</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins	<u>30</u> Mins.
D. Initial Closed-in Pressure	<u>705</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins	<u>60</u> Mins.
E. Second Initial Flow Pressure	<u>65</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins	<u>93</u> Mins.
F. Second Final Flow Pressure	<u>69</u> P.S.I.			
G. Final Closed-in Pressure	<u>812</u> P.S.I.			
H. Final Hydrostatic Mud	<u>1609</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 31 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>21</u>	<u>0</u>	<u>24</u>	<u>0</u>	<u>65</u>	<u>0</u>	<u>69</u>
P 2 <u>5</u>	<u>21</u>	<u>3</u>	<u>33</u>	<u>5</u>	<u>65</u>	<u>3</u>	<u>70</u>
P 3 <u>10</u>	<u>21</u>	<u>6</u>	<u>78</u>	<u>10</u>	<u>65</u>	<u>6</u>	<u>123</u>
P 4 <u>15</u>	<u>22</u>	<u>9</u>	<u>159</u>	<u>15</u>	<u>65</u>	<u>9</u>	<u>227</u>
P 5 <u>20</u>	<u>23</u>	<u>12</u>	<u>290</u>	<u>20</u>	<u>65</u>	<u>12</u>	<u>324</u>
P 6 <u>25</u>	<u>24</u>	<u>15</u>	<u>426</u>	<u>25</u>	<u>65</u>	<u>15</u>	<u>432</u>
P 7 <u>30</u>	<u>24</u>	<u>18</u>	<u>542</u>	<u>30</u>	<u>65</u>	<u>18</u>	<u>521</u>
P 8 _____		<u>21</u>	<u>608</u>	<u>35</u>	<u>65</u>	<u>21</u>	<u>586</u>
P 9 _____		<u>24</u>	<u>657</u>	<u>40</u>	<u>66</u>	<u>24</u>	<u>635</u>
P10 _____		<u>27</u>	<u>693</u>	<u>45</u>	<u>67</u>	<u>27</u>	<u>661</u>
P11 _____		<u>30</u>	<u>705</u>	<u>50</u>	<u>68</u>	<u>30</u>	<u>690</u>
P12 _____				<u>55</u>	<u>69</u>	<u>33</u>	<u>709</u>
P13 _____				<u>60</u>	<u>69</u>	<u>36</u>	<u>731</u>
P14 _____						<u>39</u>	<u>747</u>
P15 _____						<u>42</u>	<u>760</u>
P16 _____						<u>45</u>	<u>769</u>
P17 _____						<u>48</u>	<u>774</u>
P18 _____						<u>51</u>	<u>779</u>
P19 _____						<u>54</u>	<u>784</u>
P20 _____						<u>57</u>	<u>789</u>
						<u>60</u>	<u>794</u>

WESTERN TESTING CO., INC.
Pressure Data

Date 5/10/82

Test Ticket No. 13310

Recorder No. 2605

Capacity 4150 Location 3345 Ft.

Clock No. --

Elevation 1098 Kelly Bushing Well Temperature 112 °F

Point	Pressure			Time	
				Given	Computed
A	Initial Hydrostatic Mud	<u>1660</u>	P.S.I.	Open Tool	<u>9:40</u> A M
B	First Initial Flow Pressure	<u>21</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins. <u>30</u> Mins.
C	First Final Flow Pressure	<u>24</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins. <u>30</u> Mins.
D	Initial Closed-in Pressure	<u>705</u>	P.S.I.	Second Flow Pressure	<u>60</u> Mins. <u>60</u> Mins.
E	Second Initial Flow Pressure	<u>65</u>	P.S.I.	Final Closed-in Pressure	<u>90</u> Mins. <u>93</u> Mins.
F	Second Final Flow Pressure	<u>69</u>	P.S.I.		
G	Final Closed-in Pressure	<u>812</u>	P.S.I.		
H	Final Hydrostatic Mud	<u>1609</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
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Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 31 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Initial Shut-In		Second Flow Pressure		Final Shut-In	
		Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						<u>63</u>	<u>798</u>
P 2						<u>66</u>	<u>800</u>
P 3						<u>69</u>	<u>802</u>
P 4						<u>72</u>	<u>804</u>
P 5						<u>75</u>	<u>806</u>
P 6						<u>78</u>	<u>807</u>
P 7						<u>81</u>	<u>808</u>
P 8						<u>84</u>	<u>809</u>
P 9						<u>87</u>	<u>810</u>
P10						<u>90</u>	<u>811</u>
P11						<u>93</u>	<u>812</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

