

Company Rine Exploration Company Lease & Well No. Bear #1-15
 Elevation - Formation Stalnaker Effective Pay - Ft. Ticket No. 14802
 Date 2/18/82 Sec. 15 Twp. 31S Range 6W County Harper State Kansas
 Test Approved by Brad Rine Western Representative Jeff Piotrowski
 Formation Test No. 1 Interval Tested from 3335 ft. to 3415 ft. Total Depth 3415 ft.
 Packer Depth 3330 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3335 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3338 ft. Recorder Number 1565 Cap. 4900
 Bottom Recorder Depth (Outside) 3341 ft. Recorder Number 1560 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor White & Ellis Rig #10 Drill Collar Length 270 I. D. 2.2 in.
 Mud Type Gel Viscosity 37 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 24.0 cc. Drill Pipe Length 3045 I. D. 3.8 in.
 Chlorides 14,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make No Serial Number - Anchor Length 80 ft. Size 5 1/2 OD in.
 Did Well Flow? No Reversed Out Yes 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 throughout test.

Recovered 30 ft. of muddy water

Recovered 1290 ft. of water Chlorides 98,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Read bottom recorder

Time Set Packer(s) 3:30 A.M. Time Started Off Bottom 5:30 A.M. Maximum Temperature 108
 Initial Hydrostatic Pressure (A) 1770 P.S.I.
 Initial Flow Period Minutes 30 (B) 218 P.S.I. to (C) 391 P.S.I.
 Initial Closed In Period Minutes 30 (D) 1351 P.S.I.
 Final Flow Period Minutes 30 (E) 477 P.S.I. to (F) 610 P.S.I.
 Final Closed In Period Minutes 30 (G) 1351 P.S.I.
 Final Hydrostatic Pressure (H) 1662 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 2/18/82 Recorder No. 1560 Capacity 4500 Test Ticket No. 14802 Location 3341 Ft.
 Clock No. - Elevation - Well Temperature 108 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1770</u> P.S.I.	<u>3:30A</u> M	
B First Initial Flow Pressure	<u>218</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>391</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1351</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>477</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>610</u> P.S.I.		
G Final Closed-in Pressure	<u>1351</u> P.S.I.		
H Final Hydrostatic Mud	<u>1662</u> P.S.I.		

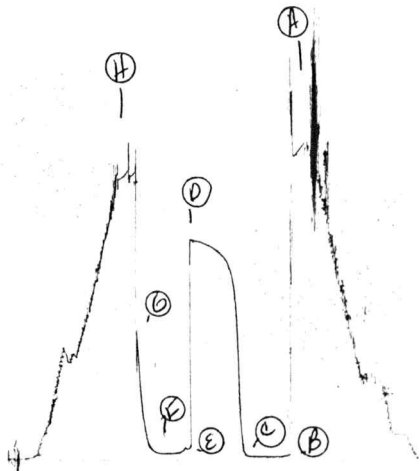
PRESSURE BREAKDOWN

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>218</u>	<u>0</u>	<u>391</u>	<u>0</u>	<u>477</u>	<u>0</u>	<u>610</u>
P 2 <u>5</u>	<u>218</u>	<u>3</u>	<u>1187</u>	<u>5</u>	<u>477</u>	<u>3</u>	<u>1241</u>
P 3 <u>10</u>	<u>222</u>	<u>6</u>	<u>1252</u>	<u>10</u>	<u>486</u>	<u>6</u>	<u>1277</u>
P 4 <u>15</u>	<u>266</u>	<u>9</u>	<u>1286</u>	<u>15</u>	<u>516</u>	<u>9</u>	<u>1302</u>
P 5 <u>20</u>	<u>306</u>	<u>12</u>	<u>1304</u>	<u>20</u>	<u>547</u>	<u>12</u>	<u>1315</u>
P 6 <u>25</u>	<u>352</u>	<u>15</u>	<u>1320</u>	<u>25</u>	<u>577</u>	<u>15</u>	<u>1327</u>
P 7 <u>30</u>	<u>391</u>	<u>18</u>	<u>1329</u>	<u>30</u>	<u>610</u>	<u>18</u>	<u>1336</u>
P 8		<u>21</u>	<u>1338</u>			<u>21</u>	<u>1341</u>
P 9		<u>24</u>	<u>1342</u>			<u>24</u>	<u>1346</u>
P10		<u>27</u>	<u>1346</u>			<u>27</u>	<u>1349</u>
P11		<u>30</u>	<u>1351</u>			<u>30</u>	<u>1351</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

1565
DST #2

JK #14803

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Company Rine Exploration Company Lease & Well No. Bear #1-15
Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 14803
Date 2/19/82 Sec. 15 Twp. 31S Range 6W County Harper State Kansas
Test Approved by Brad Rine Western Representative Jeff Piotrowski
Formation Test No. 2 Interval Tested from 3667 ft. to 3675 ft. Total Depth 3675 ft.
Packer Depth 3662 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3667 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3670 ft. Recorder Number 1565 Cap. 4900
Bottom Recorder Depth (Outside) 3673 ft. Recorder Number 1560 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor White & Ellis Rig #10 Drill Collar Length 330 I. D. 2.2 in.
Mud Type - Viscosity 50 Weight Pipe Length - I. D. - in.
Weight 9.3 Water Loss 10.8 cc. Drill Pipe Length 3317 I. D. 3.8 in.
Chlorides 12,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 8 ft. Size 5 1/2 OD 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: Weak throughout initial flow period. Died in 20 minutes final flow period.

Recovered 30 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 2:05 ~~A.M.~~ P.M. Time Started Off Bottom 4:00 ~~A.M.~~ P.M. Maximum Temperature 110
Initial Hydrostatic Pressure (A) 1926 P.S.I.
Initial Flow Period Minutes 30 (B) 30 P.S.I. to (C) 30 P.S.I.
Initial Closed In Period Minutes 45 (D) 1400 P.S.I.
Final Flow Period Minutes 20 (E) 46 P.S.I. to (F) 46 P.S.I.
Final Closed In Period Minutes 21 (G) 817 P.S.I.
Final Hydrostatic Pressure (H) 1802 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 2/19/82 Test Ticket No. 14803
Recorder No. 1565 Capacity 4900 Location 3670 Ft.
Clock No. - Elevation - Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1926</u> P.S.I.	Open Tool	<u>2:05P</u> M	
B First Initial Flow Pressure	<u>30</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>30</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1400</u> P.S.I.	Second Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
E Second Initial Flow Pressure	<u>46</u> P.S.I.	Final Closed-in Pressure	<u>20</u> Mins.	<u>21</u> Mins.
F Second Final Flow Pressure	<u>46</u> P.S.I.			
G Final Closed-in Pressure	<u>817</u> P.S.I.			
H Final Hydrostatic Mud	<u>1802</u> P.S.I.			

PRESSURE BREAKDOWN

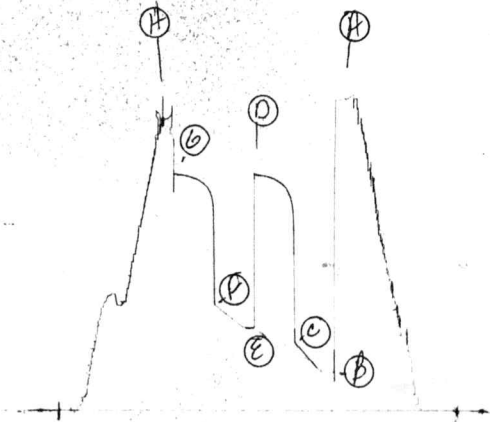
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>4</u> Inc.		Breakdown: <u>7</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> 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>30</u>	<u>0</u>	<u>30</u>	<u>0</u>	<u>46</u>	<u>0</u>	<u>46</u>
P 2 <u>5</u>	<u>30</u>	<u>3</u>	<u>35</u>	<u>5</u>	<u>46</u>	<u>3</u>	<u>46</u>
P 3 <u>10</u>	<u>30</u>	<u>6</u>	<u>176</u>	<u>10</u>	<u>46</u>	<u>6</u>	<u>52</u>
P 4 <u>15</u>	<u>30</u>	<u>9</u>	<u>691</u>	<u>15</u>	<u>46</u>	<u>9</u>	<u>72</u>
P 5 <u>20</u>	<u>30</u>	<u>12</u>	<u>1037</u>	<u>20</u>	<u>46</u>	<u>12</u>	<u>139</u>
P 6 <u>25</u>	<u>30</u>	<u>15</u>	<u>1185</u>			<u>15</u>	<u>292</u>
P 7 <u>30</u>	<u>30</u>	<u>18</u>	<u>1254</u>			<u>18</u>	<u>626</u>
P 8		<u>21</u>	<u>1296</u>			<u>21</u>	<u>817</u>
P 9		<u>24</u>	<u>1320</u>				
P10		<u>27</u>	<u>1340</u>				
P11		<u>30</u>	<u>1356</u>				
P12		<u>33</u>	<u>1369</u>				
P13		<u>36</u>	<u>1382</u>				
P14		<u>39</u>	<u>1389</u>				
P15		<u>42</u>	<u>1397</u>				
P16		<u>45</u>	<u>1400</u>				
P17							
P18							
P19							
P20							

1560

DST #1.

JK # 14802

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Company Rine Exploration Company Lease & Well No. Bear #1-15
Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 14804
Date 2/20/82 Sec. 15 Twp. 31S Range 6W County Harper State Kansas
Test Approved by Brad Rine Western Representative Jeff Piotrowski
Formation Test No. 3 Interval Tested from 3774 ft. to 3792 ft. Total Depth 3792 ft.
Packer Depth 3769 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3774 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3777 ft. Recorder Number 1565 Cap 4900
Bottom Recorder Depth (Outside) 3780 ft. Recorder Number 1560 Cap 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap -
Drilling Contractor White & Ellis Rig #10 Drill Collar Length 330 I. D. 2.2 in.
Mud Type Gel Viscosity 32 Weight Pipe Length - I. D. - in.
Weight 9.4 Water Loss 18.0 cc. Drill Pipe Length 3424 I. D. 3.8 in.
Chlorides 14,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 18 ft. Size 5 1/2 OD 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 building to strong initial flow period. Fair building to strong final flow period.

Recovered 120 ft. of gas in pipe
Recovered 90 ft. of slightly oil cut mud - 17% gas; 6% oil; 12% water; 65% mud
Recovered 60 ft. of slightly oil cut watery mud
Recovered 240 ft. of water Chlorides 104,000 PPM
Recovered ft. of

Remarks:

Time Set Packer(s) 10:00 ~~A.M.~~ P.M. Time Started Off Bottom 1:15 ~~A.M.~~ P.M. Maximum Temperature 114
Initial Hydrostatic Pressure (A) 1987 P.S.I.
Initial Flow Period Minutes 30 (B) 62 P.S.I. to (C) 109 P.S.I.
Initial Closed In Period Minutes 48 (D) 1536 P.S.I.
Final Flow Period Minutes 60 (E) 158 P.S.I. to (F) 208 P.S.I.
Final Closed In Period Minutes 60 (G) 1524 P.S.I.
Final Hydrostatic Pressure (H) 1852 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 2/20/82 Recorder No. 1565 Capacity 4900 Test Ticket No. 14804 Location 3777 Ft.
 Clock No. - Elevation - Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1987</u> P.S.I.	Open Tool	<u>10:00P</u> M	
B First Initial Flow Pressure	<u>62</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>109</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>1536</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>158</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>208</u> P.S.I.			
G Final Closed-in Pressure	<u>1524</u> P.S.I.			
H Final Hydrostatic Mud	<u>1852</u> P.S.I.			

PRESSURE BREAKDOWN

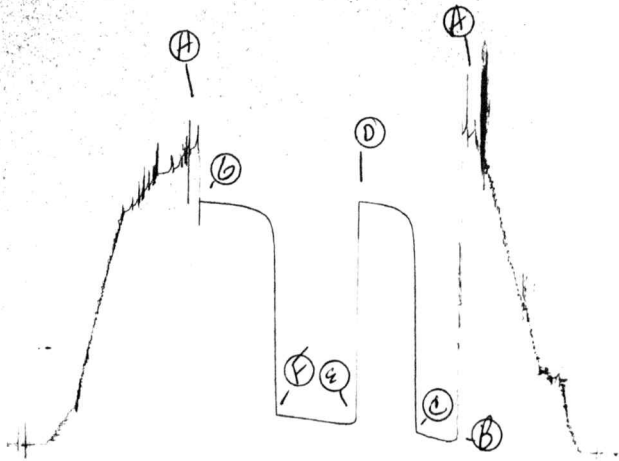
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>16</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</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>62</u>	<u>0</u>	<u>109</u>	<u>0</u>	<u>158</u>	<u>0</u>	<u>208</u>
P 2 <u>5</u>	<u>62</u>	<u>3</u>	<u>869</u>	<u>5</u>	<u>158</u>	<u>3</u>	<u>1064</u>
P 3 <u>10</u>	<u>64</u>	<u>6</u>	<u>1318</u>	<u>10</u>	<u>158</u>	<u>6</u>	<u>1357</u>
P 4 <u>15</u>	<u>76</u>	<u>9</u>	<u>1411</u>	<u>15</u>	<u>162</u>	<u>9</u>	<u>1416</u>
P 5 <u>20</u>	<u>84</u>	<u>12</u>	<u>1446</u>	<u>20</u>	<u>167</u>	<u>12</u>	<u>1446</u>
P 6 <u>25</u>	<u>97</u>	<u>15</u>	<u>1468</u>	<u>25</u>	<u>173</u>	<u>15</u>	<u>1461</u>
P 7 <u>30</u>	<u>109</u>	<u>18</u>	<u>1485</u>	<u>30</u>	<u>181</u>	<u>18</u>	<u>1473</u>
P 8		<u>21</u>	<u>1500</u>	<u>35</u>	<u>186</u>	<u>21</u>	<u>1483</u>
P 9		<u>24</u>	<u>1507</u>	<u>40</u>	<u>191</u>	<u>24</u>	<u>1493</u>
P10		<u>27</u>	<u>1512</u>	<u>45</u>	<u>196</u>	<u>27</u>	<u>1498</u>
P11		<u>30</u>	<u>1520</u>	<u>50</u>	<u>200</u>	<u>30</u>	<u>1502</u>
P12		<u>33</u>	<u>1524</u>	<u>55</u>	<u>205</u>	<u>33</u>	<u>1505</u>
P13		<u>36</u>	<u>1527</u>	<u>60</u>	<u>208</u>	<u>36</u>	<u>1507</u>
P14		<u>39</u>	<u>1530</u>			<u>39</u>	<u>1509</u>
P15		<u>42</u>	<u>1532</u>			<u>42</u>	<u>1512</u>
P16		<u>45</u>	<u>1534</u>			<u>45</u>	<u>1515</u>
P17		<u>48</u>	<u>1536</u>			<u>48</u>	<u>1517</u>
P18						<u>51</u>	<u>1519</u>
P19						<u>54</u>	<u>1521</u>
P20						<u>57</u>	<u>1523</u>
						<u>60</u>	<u>1524</u>

1565

DST #3

NK # 14804

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Company Rine Exploration Company Lease & Well No. Bear #1-15
Elevation --- Formation Mississippi Effective Pay - Ft. Ticket No. 14805
Date 2/23/82 Sec. 15 Twp. 31S Range 6W County Harper State Kansas
Test Approved by Brad Rine Western Representative Jeff Piotrowski
Formation Test No. 4 Interval Tested from 4237 ft. to 4263 ft. Total Depth 4263 ft.
Packer Depth 4232 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4237 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4240 ft. Recorder Number 1565 Cap. 4900
Bottom Recorder Depth (Outside) 4243 ft. Recorder Number 1560 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor White & Ellis Drlg. Rig #10 Drill Collar Length 330 I. D. 2.2 in.
Mud Type gel Viscosity 62 Weight Pipe Length - I. D. - in.
Weight 9.3 Water Loss 9.0 cc. Drill Pipe Length 3878 I. D. 3.8 in.
Chlorides 8,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 410 Anchor Length 26 ft. Size 5 1/2 OD 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. Gas to surface twenty-seven minutes on initial flow period . See attached
sheet for gas measurements.

Recovered 120 ft. of mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks:

Time Set Packer(s) 9:40 ~~P.M.~~ A.M. Time Started Off Bottom 12:55 ~~P.M.~~ A.M. Maximum Temperature 121°
Initial Hydrostatic Pressure 2123 (A) P.S.I.
Initial Flow Period 30 Minutes (B) 67 P.S.I. to (C) 43 P.S.I.
Initial Closed In Period 45 Minutes (D) 1493 P.S.I.
Final Flow Period 60 Minutes (E) 40 P.S.I. to (F) 47 P.S.I.
Final Closed In Period 63 Minutes (G) 1483 P.S.I.
Final Hydrostatic Pressure 2099 (H) P.S.I.

GAS FLOW REPORT

Date 2/23/82 Ticket 14805 Company Rine Exploration Company
 Well Name and No. Bear #1-15 Dst No. 4 Interval Tested 4237-4263'
 County Harper State Kansas Sec. 15 Twp. 31S Rg. 6W

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

GAS TO SURFACE TWENTY SEVEN MINUTES.

						Description of Flow
	10 min.	1.0 PSIG		1/2" orifice		33,900 CFPD
	20 min.	1.0 PSIG		1/2" orifice		33,900 CFPD
	30 min.	1.0 PSIG		1/2" orifice		33,900 CFPD
	40 min.	1.0 PSIG		1/2" orifice		33,900 CFPD
	50 min.	1.0 PSIG		1/2" orifice		33,900 CFPD
	60 min.	1.0 PSIG		1/2" orifice		33,900 CFPD

GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced 2/23/82

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 Rine Exploration Company
 Authorized by Brad Rine

WESTERN TESTING CO., INC.
Pressure Data

Date 2/23/82 Test Ticket No. 14805
Recorder No. 1565 Capacity 4900 Location 4240 Ft.
Clock No. -- Elevation -- Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2123</u> P.S.I.	Open Tool	9:40 A	M
B First Initial Flow Pressure	<u>67</u> P.S.I.	First Flow Pressure	30	30 Mins.
C First Final Flow Pressure	<u>43</u> P.S.I.	Initial Closed-in Pressure	45	45 Mins.
D Initial Closed-in Pressure	<u>1493</u> P.S.I.	Second Flow Pressure	60	60 Mins.
E Second Initial Flow Pressure	<u>40</u> P.S.I.	Final Closed-in Pressure	60	63 Mins.
F Second Final Flow Pressure	<u>47</u> P.S.I.			
G Final Closed-in Pressure	<u>1483</u> P.S.I.			
H Final Hydrostatic Mud	<u>2099</u> P.S.I.			

PRESSURE BREAKDOWN

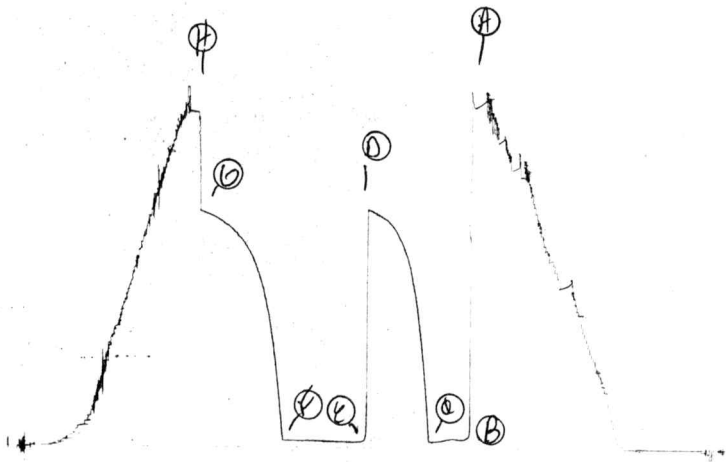
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>21</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</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>67</u>	<u>0</u>	<u>43</u>	<u>0</u>	<u>40</u>	<u>0</u>	<u>47</u>
P 2 <u>5</u>	<u>57</u>	<u>3</u>	<u>413</u>	<u>5</u>	<u>40</u>	<u>3</u>	<u>304</u>
P 3 <u>10</u>	<u>58</u>	<u>6</u>	<u>683</u>	<u>10</u>	<u>40</u>	<u>6</u>	<u>535</u>
P 4 <u>15</u>	<u>58</u>	<u>9</u>	<u>918</u>	<u>15</u>	<u>41</u>	<u>9</u>	<u>725</u>
P 5 <u>20</u>	<u>50</u>	<u>12</u>	<u>1064</u>	<u>20</u>	<u>42</u>	<u>12</u>	<u>885</u>
P 6 <u>25</u>	<u>45</u>	<u>15</u>	<u>1170</u>	<u>25</u>	<u>44</u>	<u>15</u>	<u>1002</u>
P 7 <u>30</u>	<u>43</u>	<u>18</u>	<u>1249</u>	<u>30</u>	<u>45</u>	<u>18</u>	<u>1089</u>
P 8		<u>21</u>	<u>1303</u>	<u>35</u>	<u>46</u>	<u>21</u>	<u>1163</u>
P 9		<u>24</u>	<u>1350</u>	<u>40</u>	<u>47</u>	<u>24</u>	<u>1212</u>
P10		<u>27</u>	<u>1389</u>	<u>45</u>	<u>47</u>	<u>27</u>	<u>1261</u>
P11		<u>30</u>	<u>1419</u>	<u>50</u>	<u>47</u>	<u>30</u>	<u>1298</u>
P12		<u>33</u>	<u>1436</u>	<u>55</u>	<u>47</u>	<u>33</u>	<u>1325</u>
P13		<u>36</u>	<u>1453</u>	<u>60</u>	<u>47</u>	<u>36</u>	<u>1355</u>
P14		<u>39</u>	<u>1470</u>			<u>39</u>	<u>1379</u>
P15		<u>42</u>	<u>1483</u>			<u>42</u>	<u>1399</u>
P16		<u>45</u>	<u>1493</u>			<u>45</u>	<u>1416</u>
P17						<u>48</u>	<u>1434</u>
P18						<u>51</u>	<u>1448</u>
P19						<u>54</u>	<u>1461</u>
P20						<u>57</u>	<u>1468</u>
						<u>60</u>	<u>1478</u>
						<u>63</u>	<u>1483</u>

1565

DST 44

JK # 14805

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Company Rine Exploration Company Lease & Well No. Bear #1-15
Elevation --- Formation Mississippi Effective Pay - Ft. Ticker No. 14806
Date 2/23/82 Sec. 15 Twp. 31S Range 6W County Harper State Kansas
Test Approved by Brad Rine Western Representative Jeff Piotrowski
Formation Test No. 5 Interval Tested from 4259 ft. to 4278 ft. Total Depth 4278 ft.
Packer Depth 4254 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4259 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4262 ft. Recorder Number 1565 Cap. 4900
Bottom Recorder Depth (Outside) 4265 ft. Recorder Number 1560 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor White & Ellis Drlg. Rig #10 Drill Collar Length 330 I. D. 2.2 in.
Mud Type gel Viscosity 62 Weight Pipe Length - I. D. - in.
Weight 9.3 Water Loss 9.0 cc. Drill Pipe Length 3900 I. D. 3.8 in.
Chlorides 8,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 410 Anchor Length 19 ft. Size 5 1/2 OD 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. Gas to surface ten minutes on final flow period. Too small to measure.

Recovered	60	ft. of	mud - few oil specks
Recovered	60	ft. of	oil cut mud 52% mud; 4% water; 14% oil; 30% gas
Recovered	60	ft. of	heavy oil cut mud 36% mud; 8% water; 26% oil; 30% gas
Recovered	60	ft. of	watery mud
Recovered	240	ft. of	water Chlorides 76,000 ppm

Remarks:

Time Set Packer(s) 12:15 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 3:30 ~~P.M.~~ ^{A.M.} Maximum Temperature 122°
Initial Hydrostatic Pressure (A) 2153 P.S.I.
Initial Flow Period Minutes 30 (B) 126 P.S.I. to (C) 129 P.S.I.
Initial Closed In Period Minutes 45 (D) 1498 P.S.I.
Final Flow Period Minutes 60 (E) 137 P.S.I. to (F) 164 P.S.I.
Final Closed In Period Minutes 60 (G) 1498 P.S.I.
Final Hydrostatic Pressure (H) 2081 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 2/23/82 Test Ticket No. 14806
 Recorder No. 1565 Capacity 4900 Location 4262 Ft.
 Clock No. --- Elevation --- Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2153</u> P.S.I.	Open Tool	<u>12:15A</u> M	
B First Initial Flow Pressure	<u>126</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>129</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1498</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>137</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>164</u> P.S.I.			
G Final Closed-in Pressure	<u>1498</u> P.S.I.			
H Final Hydrostatic Mud	<u>2081</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>126</u>	<u>0</u>	<u>129</u>	<u>0</u>	<u>137</u>	<u>0</u>	<u>164</u>
P 2 <u>5</u>	<u>126</u>	<u>3</u>	<u>500</u>	<u>5</u>	<u>137</u>	<u>3</u>	<u>609</u>
P 3 <u>10</u>	<u>129</u>	<u>6</u>	<u>817</u>	<u>10</u>	<u>137</u>	<u>6</u>	<u>916</u>
P 4 <u>15</u>	<u>129</u>	<u>9</u>	<u>1054</u>	<u>15</u>	<u>139</u>	<u>9</u>	<u>1064</u>
P 5 <u>20</u>	<u>129</u>	<u>12</u>	<u>1192</u>	<u>20</u>	<u>144</u>	<u>12</u>	<u>1167</u>
P 6 <u>25</u>	<u>129</u>	<u>15</u>	<u>1269</u>	<u>25</u>	<u>149</u>	<u>15</u>	<u>1234</u>
P 7 <u>30</u>	<u>129</u>	<u>18</u>	<u>1320</u>	<u>30</u>	<u>154</u>	<u>18</u>	<u>1288</u>
P 8		<u>21</u>	<u>1360</u>	<u>35</u>	<u>158</u>	<u>21</u>	<u>1328</u>
P 9		<u>24</u>	<u>1392</u>	<u>40</u>	<u>159</u>	<u>24</u>	<u>1360</u>
P10		<u>27</u>	<u>1416</u>	<u>45</u>	<u>161</u>	<u>27</u>	<u>1384</u>
P11		<u>30</u>	<u>1436</u>	<u>50</u>	<u>162</u>	<u>30</u>	<u>1406</u>
P12		<u>33</u>	<u>1453</u>	<u>55</u>	<u>163</u>	<u>33</u>	<u>1421</u>
P13		<u>36</u>	<u>1468</u>	<u>60</u>	<u>164</u>	<u>36</u>	<u>1436</u>
P14		<u>39</u>	<u>1480</u>			<u>39</u>	<u>1448</u>
P15		<u>42</u>	<u>1490</u>			<u>42</u>	<u>1458</u>
P16		<u>45</u>	<u>1498</u>			<u>45</u>	<u>1468</u>
P17						<u>48</u>	<u>1475</u>
P18						<u>51</u>	<u>1480</u>
P19						<u>54</u>	<u>1488</u>
P20						<u>57</u>	<u>1493</u>
						<u>60</u>	<u>1498</u>

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JG #14806
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