

Company National Oil Company Lease & Well No. Brawner #1  
 Elevation N/A Formation Mississippi Effective Pay ---- Ft. Ticket No. 7367  
 Date 9/25/80 Sec. 26 Twp. 23S Range 5W County Reno State Kansas  
 Test Approved by William A. Sladek Western Representative Cliff Scheuerman

Formation Test No. 1 Interval Tested from 3379 ft. to 3390 ft. Total Depth 3390 ft.  
 Packer Depth 3374 ft. Size 6 3/4 in. Packer Depth 3379 ft. Size 6 3/4 in.  
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3381 ft. Recorder Number 1563 Cap. 4200  
 Bottom Recorder Depth (Outside) 3384 ft. Recorder Number 1562 Cap. 3900  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor H-30 Drlg. Inc. Rig #7 Drill Collar Length - I. D. - in.  
 Mud Type drispac Viscosity 53 Weight Pipe Length - I. D. - in.  
 Weight 9.5 Water Loss 13.2 cc. Drill Pipe Length 3355 I. D. 3.8 in.  
 Chlorides 25,000 P.P.M. Test Tool Length 24 ft. Tool Size 4 1/2 in.  
 Jars: Make -- Serial Number -- Anchor Length 11 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: Initial flow period, fair blow dying in fifteen minutes; flushed tool; weak blow, died right away. Final flow period no blow; flushed tool, no blow; dead.

Recovered 40 ft. of very slightly spotted oil cut mud  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Remarks: Tool slid ten feet once on bottom.

READ OUTSIDE CHART

Time Set Packer(s)	<u>8:00</u> <del>A.M.</del> P.M.	Time Started Off Bottom	<u>10:30</u> A.M. P.M.	Maximum Temperature	<u>111°</u>
Initial Hydrostatic Pressure	(A)	<u>1727</u>	P.S.I.		
Initial Flow Period	Minutes	<u>25</u>	(B)	<u>22</u>	P.S.I. to (C) <u>72</u> P.S.I.
Initial Closed In Period	Minutes	<u>42</u>	(D)	<u>746</u>	P.S.I.
Final Flow Period	Minutes	<u>30</u>	(E)	<u>112</u>	P.S.I. to (F) <u>123</u> P.S.I.
Final Closed In Period	Minutes	<u>42</u>	(G)	<u>681</u>	P.S.I.
Final Hydrostatic Pressure	(H)	<u>1708</u>	P.S.I.		

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 9-25-80 Test Ticket No. 7367  
 Recorder No. 1562 Capacity 3900 Location 3384 Ft.  
 Clock No. ----- Elevation ----- Well Temperature 110 °F

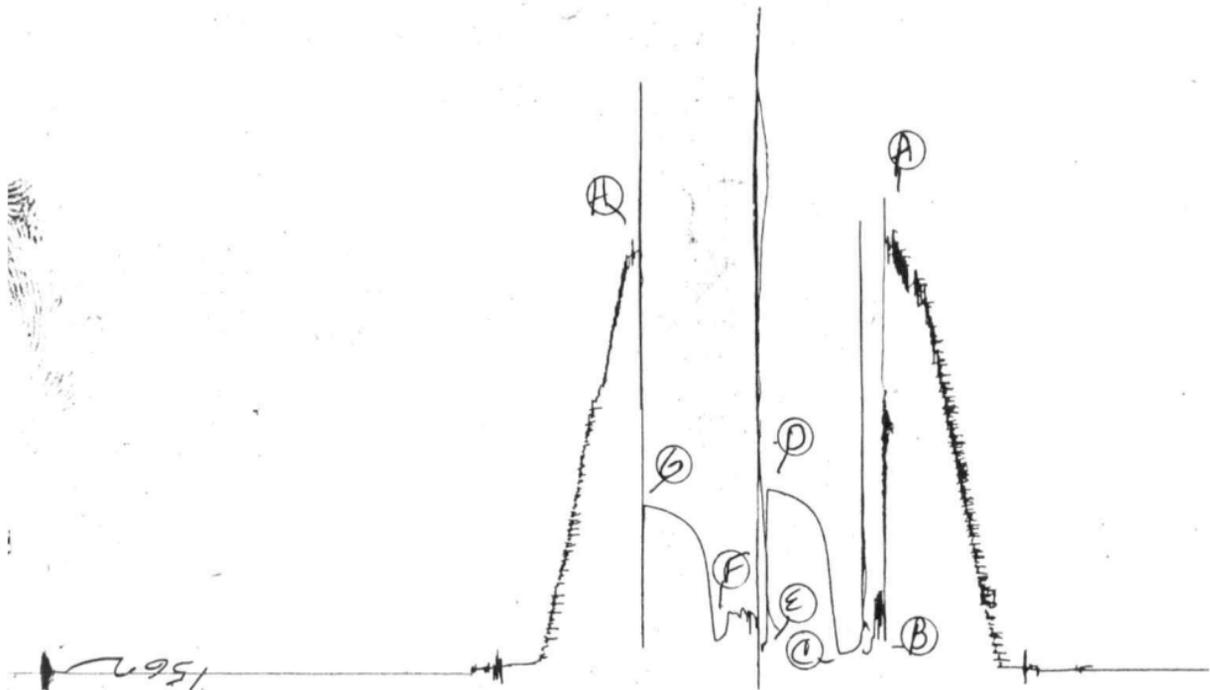
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1727	P.S.I.	8:00 P M	
B First Initial Flow Pressure	22	P.S.I.	30 Mins.	25 Mins.
C First Final Flow Pressure	72	P.S.I.	45 Mins.	42 Mins.
D Initial Closed-in Pressure	746	P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	112	P.S.I.	45 Mins.	42 Mins.
F Second Final Flow Pressure	123	P.S.I.		
G Final Closed-in Pressure	681	P.S.I.		
H Final Hydrostatic Mud	1708	P.S.I.		

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure	Point Minutes	Initial Shut-In	Point Minutes	Second Flow Pressure	Point Minutes	Final Shut-In
	Breakdown: <u>5</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Breakdown: <u>14</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Breakdown: <u>14</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.	Press.	Press.	Press.	Press.	Press.	Press.
P 1 <u>0</u>	<u>22</u>	<u>0</u>	<u>72</u>	<u>0</u>	<u>112</u>	<u>0</u>	<u>123</u>
P 2 <u>5</u>	<u>Plugging Action</u>	<u>3</u>	<u>298</u>	<u>5</u>	<u>Flushed Tool</u>	<u>3</u>	<u>360</u>
P 3 <u>10</u>	<u>Plugging Action</u>	<u>6</u>	<u>500</u>	<u>10</u>	<u>Plugging Action</u>	<u>6</u>	<u>488</u>
P 4 <u>15</u>	<u>92</u>	<u>9</u>	<u>587</u>	<u>15</u>	<u>Plugging Action</u>	<u>9</u>	<u>542</u>
P 5 <u>20</u>	<u>78</u>	<u>12</u>	<u>633</u>	<u>20</u>	<u>Plugging Action</u>	<u>12</u>	<u>575</u>
P 6 <u>25</u>	<u>72</u>	<u>15</u>	<u>661</u>	<u>25</u>	<u>135</u>	<u>15</u>	<u>599</u>
P 7 _____		<u>18</u>	<u>681</u>	<u>30</u>	<u>123</u>	<u>18</u>	<u>615</u>
P 8 _____		<u>21</u>	<u>694</u>			<u>21</u>	<u>634</u>
P 9 _____		<u>24</u>	<u>708</u>			<u>24</u>	<u>645</u>
P10 _____		<u>27</u>	<u>718</u>			<u>27</u>	<u>655</u>
P11 _____		<u>30</u>	<u>726</u>			<u>30</u>	<u>663</u>
P12 _____		<u>33</u>	<u>732</u>			<u>33</u>	<u>669</u>
P13 _____		<u>36</u>	<u>738</u>			<u>36</u>	<u>675</u>
P14 _____		<u>39</u>	<u>742</u>			<u>39</u>	<u>679</u>
P15 _____		<u>42</u>	<u>746</u>			<u>42</u>	<u>681</u>
P16 _____						<u>45</u>	
P17 _____							
P18 _____							
P19 _____							
P20 _____							

JK# 7367

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Company National Oil Company Lease & Well No. Brawner #1  
 Elevation N/A Formation Mississippi Effective Pay ---- Ft. Ticket No. 7368  
 Date 9/26/80 Sec. 26 Twp. 23S Range 5W County Reno State Kansas  
 Test Approved by William A. Sladek Western Representative Cliff Scheuerman

Formation Test No. 2 Interval Tested from 3379 ft. to 3395 ft. Total Depth 3395 ft.  
 Packer Depth 3374 ft. Size 6 3/4 in. Packer Depth 3379 ft. Size 6 3/4 in.  
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3386 ft. Recorder Number 1563 Cap. 4200  
 Bottom Recorder Depth (Outside) 3389 ft. Recorder Number 1562 Cap. 3900  
 Below Straddle Recorder Depth - ft. Recorder Number -- Cap. -

Drilling Contractor H-30 Drlg. Rig #7 Drill Collar Length - I. D. - in.  
 Mud Type drispac Viscosity 53 Weight Pipe Length - I. D. - in.  
 Weight 9.5 Water Loss 13.2 cc. Drill Pipe Length 3355 I. D. 3.8 in.  
 Chlorides 25,000 P.P.M. Test Tool Length 24 ft. Tool Size 4 1/2 in.  
 Jars: Make -- 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: Initial flow period fair blow decreasing ; died after twenty minutes. Final flow period blow dead; flushed tool; weak blow, died in five minutes.

Recovered 90 ft. of drilling mud and thick sediments.  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks: Tool slid fifteen feet; tool plugged through first opening and closing both recorders.

Time Set Packer(s) 9:05 A.M. / P.M. Time Started Off Bottom 12:05 A.M. / P.M. Maximum Temperature 112°  
 Initial Hydrostatic Pressure ..... (A) 1719 P.S.I.  
 Initial Flow Period ..... Minutes -- (B) Plugging action to (C) Plugging action P.S.I.  
 Initial Closed In Period ..... Minutes -- (D) Plugging action P.S.I.  
 Final Flow Period ..... Minutes 60 (E) Plugging action to (F) 98 P.S.I.  
 Final Closed In Period ..... Minutes 45 (G) 743 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1705 P.S.I.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

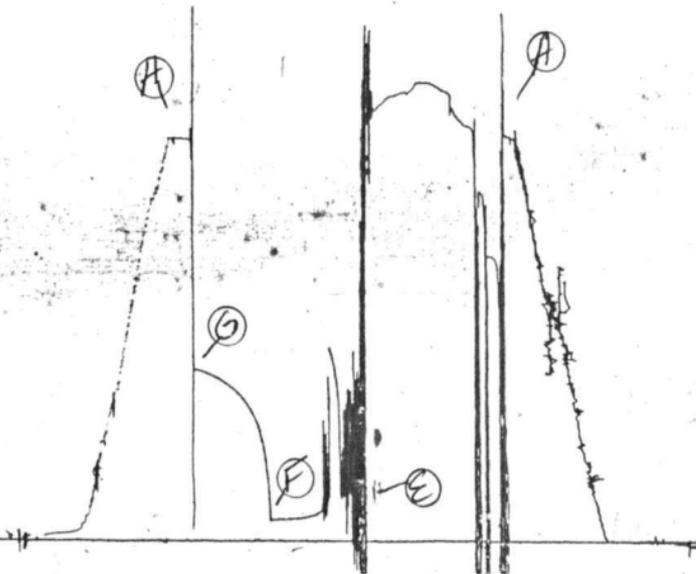
Date 9-26-80 Test Ticket No. 7368  
 Recorder No. 1563 Capacity 4200 Location 3386 Ft.  
 Clock No. ----- Elevation ----- Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1719</u> P.S.I.	Open Tool	<u>9:05 AM</u>	
B First Initial Flow Pressure	<u>Plugging Action</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>--</u> Mins.
C First Final Flow Pressure	<u>Plugging Action</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>--</u> Mins.
D Initial Closed-in Pressure	<u>Plugging Action</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>Plugging Action</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>98</u> P.S.I.			
G Final Closed-in Pressure	<u>743</u> P.S.I.			
H Final Hydrostatic Mud	<u>1705</u> P.S.I.			

**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>--</u> Inc.		Breakdown: <u>--</u> Inc.		Breakdown: <u>12</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	Plugging Action	0	98
P 2				5	Plugging Action	3	345
P 3				10	Plugging Action	6	433
P 4				15	Plugging Action	9	506
P 5				20	Plugging Action	12	557
P 6				25	Plugging Action	15	591
P 7				30	129	18	619
P 8				35	114	21	645
P 9				40	106	24	662
P10				45	101	27	679
P11				50	99	30	694
P12				55	98	33	704
P13				60	98	36	717
P14						39	726
P15						42	736
P16						45	743
P17							
P18							
P19							
P20							

AKA #7368  
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1563

Company National Oil Company Lease & Well No. Brawner #1  
 Elevation Simpson Sand Formation - Effective Pay - Ft. Ticket No. 7369  
 Date 9-27-80 Sec. 26 Twp. 23S Range 5W County Reno State Kansas  
 Test Approved by William A. Sladek Western Representative Cliff Scheuerman

Formation Test No. 3 Interval Tested from 3852 ft. to 3860 ft. Total Depth 3860 ft.  
 Packer Depth 3847 ft. Size 6 3/4 in. Packer Depth 3852 ft. Size 6 3/4 in.  
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3842 ft. Recorder Number 1563 Cap. 4200  
 Bottom Recorder Depth (Outside) 3862 ft. Recorder Number 1562 Cap. 3900  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor H-30Dr1g. (#7) Drill Collar Length - I. D. - in.  
 Mud Type Drispac Viscosity 42 Weight Pipe Length - I. D. - in.  
 Weight 9.7 Water Loss 16.4 cc. Drill Pipe Length 3823 I. D. 3.8 in.  
 Chlorides 36,000 P.P.M. Test Tool Length 29 ft. Tool Size 4 1/2 in.  
 Jars: Make - Serial Number - Anchor Length 8 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 in.

Blow: Strong blow off bottom of bucket throughout initial flow period. Fair blow building to strong blow throughout final flow period (Blow off bottom of bucket)

Recovered 1394 ft. of heavy gas cut salt water Chlorides: 36,000 PPM  
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of       

Remarks:       

Time Set Packer(s) 10:20 ~~A.M.~~ P.M. Time Started Off Bottom 1:20 ~~A.M.~~ P.M. Maximum Temperature 124  
 Initial Hydrostatic Pressure ..... (A) 2025 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 47 P.S.I. to (C) 256 P.S.I.  
 Initial Closed In Period ..... Minutes 45 (D) 1065 P.S.I.  
 Final Flow Period ..... Minutes 60 (E) 328 P.S.I. to (F) 606 P.S.I.  
 Final Closed In Period ..... Minutes 48 (G) 1068 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1964 P.S.I.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 9-27-80

Test Ticket No. 7369

Recorder No. 1563

Capacity 4200

Location 3842 Ft.

Clock No. -

Elevation -

Well Temperature 124 °F

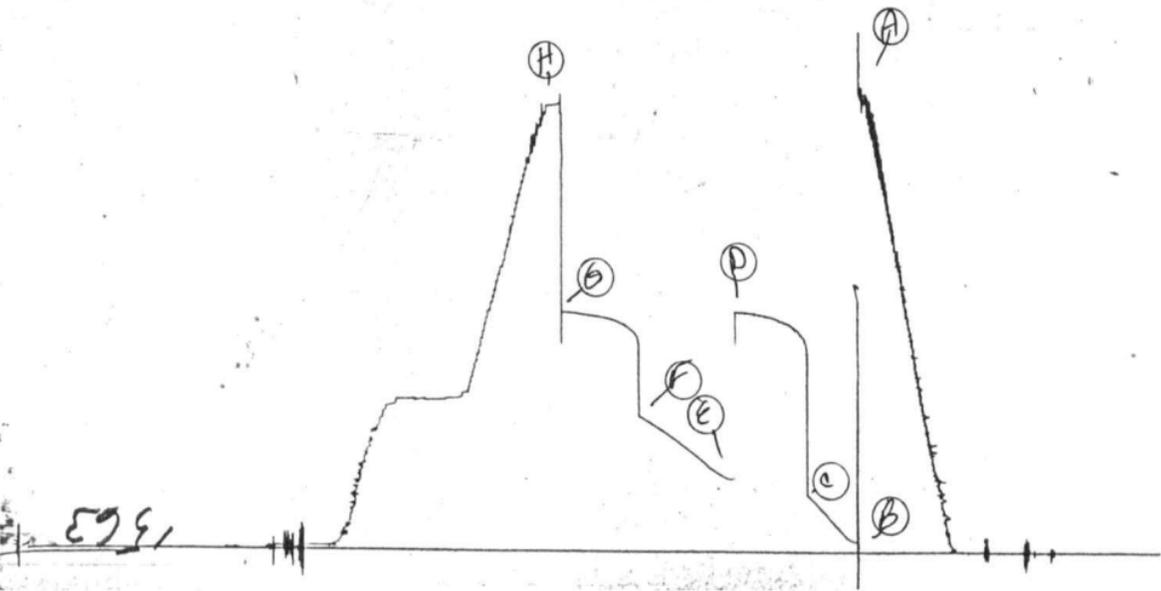
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2025</u>	P.S.I.	<u>10:20P.</u> M	
B First Initial Flow Pressure	<u>47</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>256</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1065</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>328</u>	P.S.I.	<u>45</u> Mins.	<u>48</u> Mins.
F Second Final Flow Pressure	<u>606</u>	P.S.I.		
G Final Closed-in Pressure	<u>1068</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1964</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>15</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>16</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>0</u>	<u>47</u>	<u>0</u>	<u>256</u>	<u>0</u>	<u>328</u>	<u>0</u>	<u>606</u>
P 2 <u>5</u>	<u>63</u>	<u>3</u>	<u>940</u>	<u>5</u>	<u>334</u>	<u>3</u>	<u>974</u>
P 3 <u>10</u>	<u>99</u>	<u>6</u>	<u>977</u>	<u>10</u>	<u>356</u>	<u>6</u>	<u>994</u>
P 4 <u>15</u>	<u>138</u>	<u>9</u>	<u>998</u>	<u>15</u>	<u>375</u>	<u>9</u>	<u>1011</u>
P 5 <u>20</u>	<u>179</u>	<u>12</u>	<u>1011</u>	<u>20</u>	<u>412</u>	<u>12</u>	<u>1021</u>
P 6 <u>25</u>	<u>218</u>	<u>15</u>	<u>1023</u>	<u>25</u>	<u>442</u>	<u>15</u>	<u>1030</u>
P 7 <u>30</u>	<u>256</u>	<u>18</u>	<u>1034</u>	<u>30</u>	<u>470</u>	<u>18</u>	<u>1038</u>
P 8 _____		<u>21</u>	<u>1040</u>	<u>35</u>	<u>498</u>	<u>21</u>	<u>1042</u>
P 9 _____		<u>24</u>	<u>1049</u>	<u>40</u>	<u>528</u>	<u>24</u>	<u>1046</u>
P10 _____		<u>27</u>	<u>1053</u>	<u>45</u>	<u>547</u>	<u>27</u>	<u>1049</u>
P11 _____		<u>30</u>	<u>1055</u>	<u>50</u>	<u>574</u>	<u>30</u>	<u>1051</u>
P12 _____		<u>33</u>	<u>1060</u>	<u>55</u>	<u>591</u>	<u>33</u>	<u>1053</u>
P13 _____		<u>36</u>	<u>1063</u>	<u>60</u>	<u>606</u>	<u>36</u>	<u>1056</u>
P14 _____		<u>39</u>	<u>1065</u>			<u>39</u>	<u>1059</u>
P15 _____		<u>42</u>	<u>1065</u>			<u>42</u>	<u>1061</u>
P16 _____		<u>45</u>	<u>1065</u>			<u>45</u>	<u>1063</u>
P17 _____						<u>48</u>	<u>1068</u>
P18 _____						<u>51</u>	
P19 _____						<u>5</u>	
P20 _____							

JK# 7369

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Company National Oil Company Lease & Well No. Brawner #1  
 Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 7370  
 Date 9-28-80 Sec. 26 Twp. 23S Range 5W County Reno State Kansas  
 Test Approved by Cliff Scheuerman Western Representative William A. Sladek

Formation Test No. 4 Interval Tested from 3380 ft. to 3410 ft. Total Depth 3860 ft.  
 Packer Depth 3380 ft. Size 6 3/4 in. Packer Depth 3410 ft. Size 6 3/4 in.  
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3401 ft. Recorder Number 1563 Cap. 4200  
 Bottom Recorder Depth (Outside) 3404 ft. Recorder Number 1562 Cap. 3900  
 Below Straddle Recorder Depth 3419 ft. Recorder Number 6 Cap. 3000

Drilling Contractor H-30 Drilling (#7) Drill Collar Length - I. D. - in.  
 Mud Type Drispac Viscosity 42 Weight Pipe Length - I. D. - in.  
 Weight 9.7 Water Loss 16.4 cc. Drill Pipe Length 3361 I. D. 3.8 in.  
 Chlorides 36,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make - Serial Number - Anchor Length 30 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 in.

Blow: Initial flow period, weak blow building to a good 10" blow.  
Final flow period, strong blow off bottom of bucket

Recovered 3 ft. of clean oil  
 Recovered 372 ft. of slightly muddy salt water 84,000 PPM Chlorides  
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of       

Remarks:       

Time Set Packer(s) 2:00 ~~AM~~ P.M. Time Started Off Bottom 5:00 ~~AM~~ P.M. Maximum Temperature 116  
 Initial Hydrostatic Pressure (A) 1770 P.S.I.  
 Initial Flow Period Minutes 30 (B) 58 P.S.I. to (C) 75 P.S.I.  
 Initial Closed In Period Minutes 45 (D) 634 P.S.I.  
 Final Flow Period Minutes 60 (E) 138 P.S.I. to (F) 205 P.S.I.  
 Final Closed In Period Minutes 45 (G) 626 P.S.I.  
 Final Hydrostatic Pressure (H) 1762 P.S.I.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 9-28-80 Test Ticket No. 7370  
 Recorder No. 1563 Capacity 4200 Location 3401 Ft.  
 Clock No. - Elevation - Well Temperature 116 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1770	P.S.I.	2:00P.	M
B First Initial Flow Pressure	58	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	75	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	634	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	138	P.S.I.	45	Mins. 45 Mins.
F Second Final Flow Pressure	205	P.S.I.		
G Final Closed-in Pressure	626	P.S.I.		
H Final Hydrostatic Mud	1762	P.S.I.		

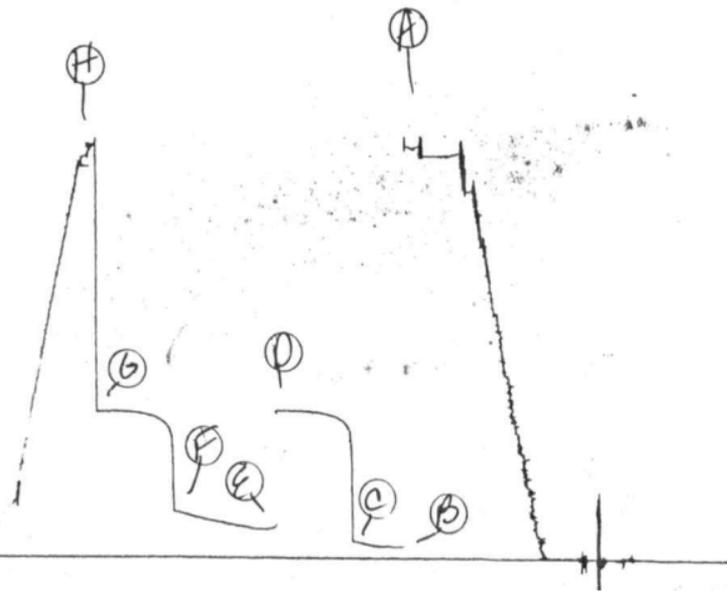
**PRESSURE BREAKDOWN**

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	58	0	75	0	138	0	205	
P 2 5	56	3	557	5	131	3	557	
P 3 10	58	6	587	10	129	6	585	
P 4 15	56	9	604	15	136	9	598	
P 5 20	63	12	613	20	142	12	611	
P 6 25	69	15	621	25	149	15	615	
P 7 30	75	18	626	30	155	18	619	
P 8		21	630	35	162	21	623	
P 9		24	632	40	168	24	626	
P10		27	633	45	177	27	626	
P11		30	634	50	189	30	626	
P12		33	634	55	197	33	626	
P13		36	634	60	205	36	626	
P14		39	634			39	626	
P15		42	634			42	626	
P16		45	634			45	626	
P17								
P18								
P19								
P20								

1563

SK # 7370

I



JKA #7370

Below Straddle

