

Company Brougner Oil, Inc. Lease & Well No. Mermis "A" #2
 Elevation 2046 Rotary Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 14958
 Date 5/18/81 Sec. 26 Twp. 20S Range 16W County Pawnee State Kansas
 Test Approved by Jim Musgrove Western Representative Cliff Scheuerman

Formation Test No. 1 Interval Tested from 3765 ft. to 3772 ft. Total Depth 3772 ft.
 Packer Depth 3760 ft. Size 6 5/8 in. Packer Depth 3765 ft. Size 6 5/8 in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3757 ft. Recorder Number 1563 Cap. 4200
 Bottom Recorder Depth (Outside) 3760 ft. Recorder Number 1562 Cap. 3900
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Woodman & Iannitti Rig #1 Drill Collar Length - I. D. - in.
 Mud Type Starch Viscosity 69 Weight Pipe Length 695.36 I. D. 2.7 in.
 Weight 10.0 Water Loss 9.0 cc. Drill Pipe Length 2990 I. D. 3.8 in.
 Chlorides 28,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 7 ft. Size 5 1/2 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 XH in.

Blow: Initial flow period blow building to strong off bottom bucket. Final flow period blow strong off bottom of bucket.

Recovered 2200 ft. of salt water Chlorides 42,000 PPM
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Read outside recorder.

Time Set Packer(s) 6:30 ~~A.M.~~ P.M. Time Started Off Bottom 9:30 ~~A.M.~~ P.M. Maximum Temperature 118
 Initial Hydrostatic Pressure (A) 2043 P.S.I.
 Initial Flow Period Minutes 45 (B) 156 P.S.I. to (C) 684 P.S.I.
 Initial Closed In Period Minutes 42 (D) 1080 P.S.I.
 Final Flow Period Minutes 45 (E) 752 P.S.I. to (F) 928 P.S.I.
 Final Closed In Period Minutes 48 (G) 1104 P.S.I.
 Final Hydrostatic Pressure (H) 1974 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 5/18/81

Test Ticket No. 14958

Recorder No. 1562

Capacity 3900

Location 3760 Ft.

Clock No. -

Elevation 2046 Kelly Bushing

Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2043</u> P.S.I.	Open Tool	<u>6:30P</u>	<u>M</u>
B First Initial Flow Pressure	<u>156</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>684</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>1080</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>752</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
F Second Final Flow Pressure	<u>928</u> P.S.I.			
G Final Closed-in Pressure	<u>1104</u> P.S.I.			
H Final Hydrostatic Mud	<u>1974</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 14 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 16 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>156</u>	<u>0</u>	<u>684</u>	<u>0</u>	<u>752</u>	<u>0</u>	<u>928</u>
P 2 <u>5</u>	<u>230</u>	<u>3</u>	<u>910</u>	<u>5</u>	<u>758</u>	<u>3</u>	<u>996</u>
P 3 <u>10</u>	<u>346</u>	<u>6</u>	<u>950</u>	<u>10</u>	<u>780</u>	<u>6</u>	<u>1024</u>
P 4 <u>15</u>	<u>412</u>	<u>9</u>	<u>980</u>	<u>15</u>	<u>806</u>	<u>9</u>	<u>1038</u>
P 5 <u>20</u>	<u>476</u>	<u>12</u>	<u>1000</u>	<u>20</u>	<u>832</u>	<u>12</u>	<u>1048</u>
P 6 <u>25</u>	<u>530</u>	<u>15</u>	<u>1010</u>	<u>25</u>	<u>858</u>	<u>15</u>	<u>1058</u>
P 7 <u>30</u>	<u>576</u>	<u>18</u>	<u>1024</u>	<u>30</u>	<u>880</u>	<u>18</u>	<u>1064</u>
P 8 <u>35</u>	<u>626</u>	<u>21</u>	<u>1036</u>	<u>35</u>	<u>900</u>	<u>21</u>	<u>1070</u>
P 9 <u>40</u>	<u>666</u>	<u>24</u>	<u>1046</u>	<u>40</u>	<u>920</u>	<u>24</u>	<u>1078</u>
P10 <u>45</u>	<u>684</u>	<u>27</u>	<u>1054</u>	<u>45</u>	<u>928</u>	<u>27</u>	<u>1080</u>
P11		<u>30</u>	<u>1058</u>			<u>30</u>	<u>1083</u>
P12		<u>33</u>	<u>1064</u>			<u>33</u>	<u>1088</u>
P13		<u>36</u>	<u>1070</u>			<u>36</u>	<u>1092</u>
P14		<u>39</u>	<u>1076</u>			<u>39</u>	<u>1098</u>
P15		<u>42</u>	<u>1080</u>			<u>42</u>	<u>1102</u>
P16						<u>45</u>	<u>1103</u>
P17						<u>48</u>	<u>1104</u>
P18							
P19							
P20							

TKT # 14958

O

1562

