

Company Banks Oil Company Lease & Well No. McMoran #1-4

Elevation - Formation Swope Effective Pay - Ft. Ticket No. 9189

Date 1/27/81 Sec. 4 Twp. 35S Range 16W County Comanche State Kansas

Test Approved by Scott Banks Western Representative Dave Sloan-Mark Auzat

Formation Test No. 1 Interval Tested from 4878 ft. to 4912 ft. Total Depth 4912 ft.

Packer Depth 4873 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4878 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4891 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 4909 ft. Recorder Number 6246 Cap. 5200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor D. R. Lauck Rig #1 Drill Collar Length 360 I. D. 2.2 in.

Mud Type Starch Viscosity 45 Weight Pipe Length - I. D. - in.

Weight 9.0 Water Loss 10.4 cc. Drill Pipe Length 4652 I. D. 3.8 in.

Chlorides 22,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 408 Anchor Length 34 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- gas to surface in 10 minutes initial flow period. See attached sheet for gas measurements.

Recovered 630 ft. of gas & mud cut water Chlorides 74,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Slid tool 12 ft. to bottom after tool opened. Caught gas sample #630

Time Set Packer(s) 3:45 A.M. Time Started Off Bottom 7:00 A.M. Maximum Temperature 128

Initial Hydrostatic Pressure (A) 2411 P.S.I.

Initial Flow Period Minutes 30 (B) 132 P.S.I. to (C) 134 P.S.I.

Initial Closed In Period Minutes 45 (D) 1760 P.S.I.

Final Flow Period Minutes 55 (E) 183 P.S.I. to (F) 224 P.S.I.

Final Closed In Period Minutes 63 (G) 1679 P.S.I.

Final Hydrostatic Pressure (H) 2380 P.S.I.

GAS FLOW REPORT

Date 1/27/81 Ticket 9189 Company Banks Oil Company
 Well Name and No. McMoran #1-4 Dst No. 1 Interval Tested 4878-4912
 County Comanche State Kansas Sec. 4 Twp. 35S Rg. 16W

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
Gas to surface 10 minutes						PRE FLOW
	5 Min	5.0 PSIG	½" Orifice			78,100 C.F.P.D.
	10 Min	4.0 PSIG	½" Orifice			68,800 C.F.P.D.
	15 Min	4.0 PSIG	½" Orifice			68,800 C.F.P.D.
	20 Min	4.0 PSIG	½" Orifice			68,800 C.F.P.D.

SECOND FLOW

	5 Min	15.0 PSIG	¼" Orifice			39,200 C.F.P.D.
	10 Min	25.0 PSIG	¼" Orifice			54,700 C.F.P.D.
	15 Min	23.0 PSIG	¼" Orifice			51,800 C.F.P.D.
	20 Min	21.0 PSIG	¼" Orifice			48,700 C.F.P.D.
	25 Min	16.0 PSIG	¼" Orifice			40,900 C.F.P.D.
	30 Min	14.0 PSIG	¼" Orifice			37,600 C.F.P.D.
	35 Min	12.0 PSIG	¼" Orifice			34,000 C.F.P.D.
	40 Min	10.0 PSIG	¼" Orifice			30,800 C.F.P.D.
	45 Min	9.0 PSIG	¼" Orifice			29,000 C.F.P.D.
	50 Min	8.0 PSIG	¼" Orifice			27,000 C.F.P.D.
	55 Min	7.0 PSIG	¼" Orifice			25,000 C.F.P.D.
	60 Min	7.0 PSIG	½" Orifice			25,000 C.F.P.D.

GAS BOTTLE

Serial No. 630 Date Bottle Filled 1/27/81 Date to be Invoiced 1/27/81

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 1½% per month, equal to 18% 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 Banks Oil Company
 Authorized by Scott Banks

WESTERN TESTING CO., INC.

Pressure Data

Date 1/27/81 Recorder No. 2604 Capacity 4150 Test Ticket No. 9189
 Location 4891 Ft. Elevation - Well Temperature 128 °F
 Clock No. -

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2411	P.S.I.	3:45P	M
B First Initial Flow Pressure	132	P.S.I.	30	30 Mins.
C First Final Flow Pressure	134	P.S.I.	45	45 Mins.
D Initial Closed-in Pressure	1760	P.S.I.	60	55 Mins.
E Second Initial Flow Pressure	183	P.S.I.	60	63 Mins.
F Second Final Flow Pressure	224	P.S.I.		
G Final Closed-in Pressure	1679	P.S.I.		
H Final Hydrostatic Mud	2380	P.S.I.		

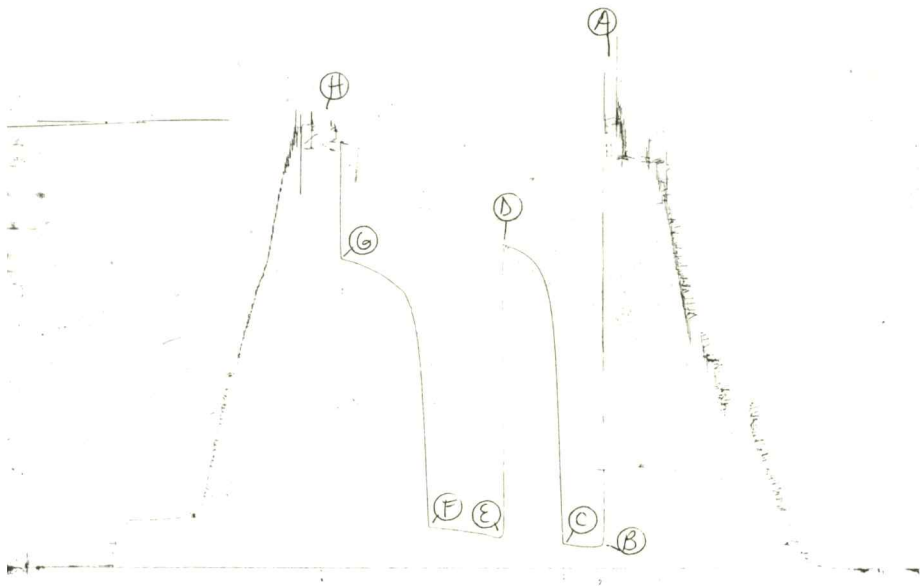
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>11</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>132</u>	<u>0</u>	<u>134</u>	<u>0</u>	<u>183</u>	<u>0</u>	<u>224</u>
P 2 <u>5</u>	<u>121</u>	<u>3</u>	<u>906</u>	<u>5</u>	<u>168</u>	<u>3</u>	<u>834</u>
P 3 <u>10</u>	<u>119</u>	<u>6</u>	<u>1276</u>	<u>10</u>	<u>179</u>	<u>6</u>	<u>1173</u>
P 4 <u>15</u>	<u>120</u>	<u>9</u>	<u>1433</u>	<u>15</u>	<u>188</u>	<u>9</u>	<u>1328</u>
P 5 <u>20</u>	<u>124</u>	<u>12</u>	<u>1527</u>	<u>20</u>	<u>192</u>	<u>12</u>	<u>1418</u>
P 6 <u>25</u>	<u>130</u>	<u>15</u>	<u>1584</u>	<u>25</u>	<u>198</u>	<u>15</u>	<u>1464</u>
P 7 <u>30</u>	<u>134</u>	<u>18</u>	<u>1626</u>	<u>30</u>	<u>203</u>	<u>18</u>	<u>1508</u>
P 8		<u>21</u>	<u>1658</u>	<u>35</u>	<u>209</u>	<u>21</u>	<u>1523</u>
P 9		<u>24</u>	<u>1683</u>	<u>40</u>	<u>215</u>	<u>24</u>	<u>1540</u>
P10		<u>27</u>	<u>1700</u>	<u>45</u>	<u>218</u>	<u>27</u>	<u>1561</u>
P11		<u>30</u>	<u>1716</u>	<u>50</u>	<u>221</u>	<u>30</u>	<u>1576</u>
P12		<u>33</u>	<u>1729</u>	<u>55</u>	<u>224</u>	<u>33</u>	<u>1588</u>
P13		<u>36</u>	<u>1739</u>			<u>36</u>	<u>1601</u>
P14		<u>39</u>	<u>1748</u>			<u>39</u>	<u>1613</u>
P15		<u>42</u>	<u>1754</u>			<u>42</u>	<u>1624</u>
P16		<u>45</u>	<u>1760</u>			<u>45</u>	<u>1634</u>
P17						<u>48</u>	<u>1643</u>
P18						<u>51</u>	<u>1651</u>
P19						<u>54</u>	<u>1662</u>
P20						<u>57</u>	<u>1668</u>
						<u>60</u>	<u>1672</u>
						<u>63</u>	<u>1679</u>

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TKT # 9189
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BANKS of
Memorandum #1
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Company Banks Oil Company Lease & Well No. McMoran #1
Elevation N/A Formation Hertha Effective Pay - Ft. Ticket No. 9190
Date 1/27/81 Sec. 4 Twp. 35S Range 16W County Comanche State Kansas
Test Approved by Scott Banks Western Representative Dave Sloan-Mark Auzat

Formation Test No. 2 Interval Tested from 4956 ft. to 4970 ft. Total Depth 4970 ft.

Packer Depth 4951 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4956 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4958 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 4967 ft. Recorder Number 6246 Cap. 5200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor D. R. Lauck Rig #1 Drill Collar Length 360 I. D. 2.2 in.

Mud Type Starch Viscosity 45 Weight Pipe Length - I. D. - in.

Weight 9.0 Water Loss 10.4 cc. Drill Pipe Length 4567 I. D. 3.8 in.

Chlorides 22,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 408 Anchor Length 14 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 decreasing to weak during initial flow period. Weak blow throughout final flow period.

Recovered 60 ft. of gas cut drilling mud

Recovered 180 ft. of muddy water - gas cut

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: Slid tool 8 ft. after opening.

Time Set Packer(s) 12:05 A.M. P.M. Time Started Off Bottom 2:05 A.M. P.M. Maximum Temperature 132

Initial Hydrostatic Pressure (A) 2492 P.S.I.

Initial Flow Period Minutes 30 (B) 111 P.S.I. to (C) 92 P.S.I.

Initial Closed In Period Minutes 30 (D) 1613 P.S.I.

Final Flow Period Minutes 30 (E) 181 P.S.I. to (F) 166 P.S.I.

Final Closed In Period Minutes 30 (G) 1632 P.S.I.

Final Hydrostatic Pressure (H) 2454 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/27/81 Recorder No. 2604 Capacity 4150 Test Ticket No. 9190
 Location 4958 Ft. Clock No. - Elevation - Well Temperature 132 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2492</u>	P.S.I.	<u>12:05A</u>	<u>M</u>
B First Initial Flow Pressure	<u>111</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
C First Final Flow Pressure	<u>92</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
D Initial Closed-in Pressure	<u>1613</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
E Second Initial Flow Pressure	<u>181</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
F Second Final Flow Pressure	<u>166</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
G Final Closed-in Pressure	<u>1632</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2454</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>111</u>	<u>0</u>	<u>92</u>	<u>0</u>	<u>181</u>	<u>0</u>	<u>166</u>
P 2 <u>5</u>	<u>100</u>	<u>3</u>	<u>107</u>	<u>5</u>	<u>173</u>	<u>3</u>	<u>213</u>
P 3 <u>10</u>	<u>92</u>	<u>6</u>	<u>164</u>	<u>10</u>	<u>168</u>	<u>6</u>	<u>372</u>
P 4 <u>15</u>	<u>91</u>	<u>9</u>	<u>297</u>	<u>15</u>	<u>166</u>	<u>9</u>	<u>600</u>
P 5 <u>20</u>	<u>91</u>	<u>12</u>	<u>489</u>	<u>20</u>	<u>166</u>	<u>12</u>	<u>847</u>
P 6 <u>25</u>	<u>91</u>	<u>15</u>	<u>755</u>	<u>25</u>	<u>166</u>	<u>15</u>	<u>1090</u>
P 7 <u>30</u>	<u>92</u>	<u>18</u>	<u>1056</u>	<u>30</u>	<u>166</u>	<u>18</u>	<u>1282</u>
P 8		<u>21</u>	<u>1284</u>			<u>21</u>	<u>1418</u>
P 9		<u>24</u>	<u>1456</u>			<u>24</u>	<u>1513</u>
P10		<u>27</u>	<u>1557</u>			<u>27</u>	<u>1571</u>
P11		<u>30</u>	<u>1613</u>			<u>30</u>	<u>1632</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Banks Oil Co.
Memoran #1
DST #7

TKT # 9190
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