

Company Gould Oil, Inc./Logo, Inc. Lease & Well No. Jobe #1
Elevation 1904 Kelly Bushing Formation Osage Effective Pay. - Ft. Ticket No. 13778
Date 11/ 27/81 Sec. 21 Twp. 33S Range 17W County Comanche State Kansas
Test Approved by E. K. Wood Western Representative Mike Rogers

Formation Test No. 1 Interval Tested from 5210 ft. to 5261 ft. Total Depth 5261 ft.

Packer Depth 5205 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 5210 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5212 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 5216 ft. Recorder Number 3086 Cap. 4500

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

Drilling Contractor Eagle Drilling Rig #1 Drill Collar Length 550 I. D. 2.2 in.

Mud Type chemical Viscosity 41 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 12.6 cc. Drill Pipe Length 4630 I. D. 3.8 in.

Chlorides 19,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 3660 Anchor Length 51 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 building to four inches on initial flow period. Weak one and one half inches on final flow period.

Recovered 60 ft. of drilling mud

Recovered 300 ft. of muddy water with 5% mud; 95% water with 65,000 ppm chlorides

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 1:00 ~~A.M.~~ P.M. Time Started Off Bottom 1:30 ~~P.M.~~ A.M. Maximum Temperature 125°

Initial Hydrostatic Pressure 2701 P.S.I. (A)

Initial Flow Period 30 Minutes (B) 68 P.S.I. to (C) 104 P.S.I.

Initial Closed In Period 60 Minutes (D) 1809 P.S.I.

Final Flow Period 30 Minutes (E) 164 P.S.I. to (F) 183 P.S.I.

Final Closed In Period 66 Minutes (G) 1750 P.S.I.

Final Hydrostatic Pressure 2646 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 11/27/81 Test Ticket No. 13778

Recorder No. 1566 Capacity 4300 Location 5212 Ft.

Clock No. - Elevation 1904 Kelly Bushing Well Temperature 124 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2701 P.S.I.	1:00A	M
B First Initial Flow Pressure	68 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	104 P.S.I.	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1809 P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	164 P.S.I.	60 Mins.	66 Mins.
F Second Final Flow Pressure	183 P.S.I.		
G Final Closed-in Pressure	1750 P.S.I.		
H Final Hydrostatic Mud	2646 P.S.I.		

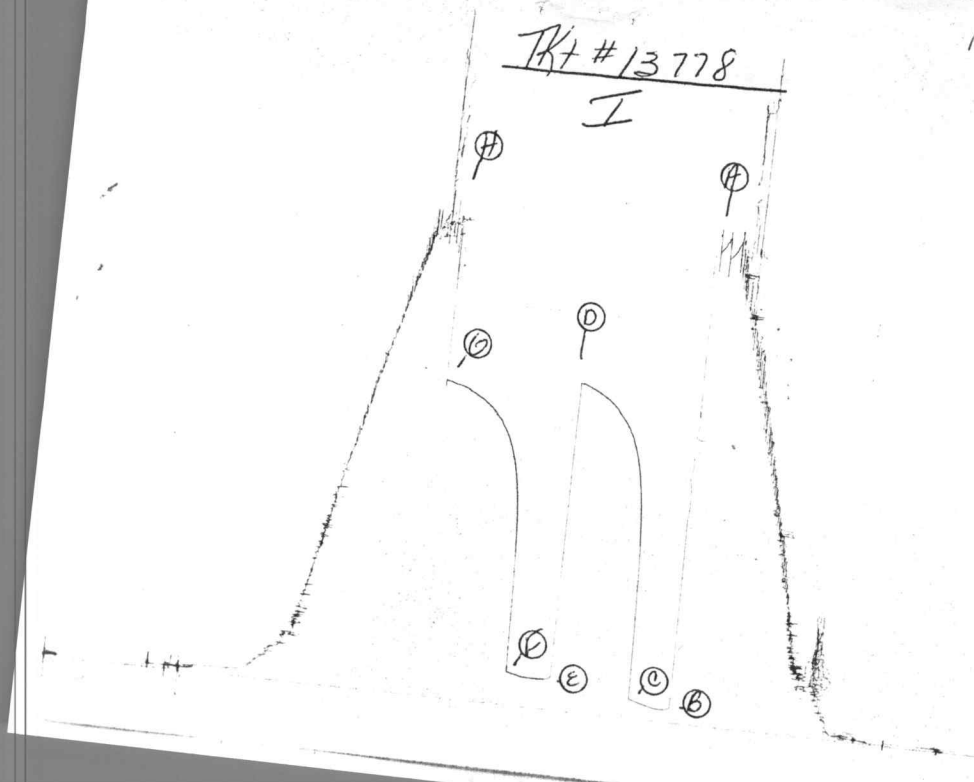
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>22</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>68</u>	<u>0</u>	<u>104</u>	<u>0</u>	<u>164</u>	<u>0</u>	<u>183</u>
P 2 <u>5</u>	<u>68</u>	<u>3</u>	<u>783</u>	<u>5</u>	<u>164</u>	<u>3</u>	<u>834</u>
P 3 <u>10</u>	<u>69</u>	<u>6</u>	<u>1137</u>	<u>10</u>	<u>164</u>	<u>6</u>	<u>1137</u>
P 4 <u>15</u>	<u>76</u>	<u>9</u>	<u>1324</u>	<u>15</u>	<u>164</u>	<u>9</u>	<u>1291</u>
P 5 <u>20</u>	<u>84</u>	<u>12</u>	<u>1438</u>	<u>20</u>	<u>164</u>	<u>12</u>	<u>1384</u>
P 6 <u>25</u>	<u>93</u>	<u>15</u>	<u>1506</u>	<u>25</u>	<u>173</u>	<u>15</u>	<u>1453</u>
P 7 <u>30</u>	<u>104</u>	<u>18</u>	<u>1565</u>	<u>30</u>	<u>183</u>	<u>18</u>	<u>1504</u>
P 8 _____		<u>21</u>	<u>1604</u>			<u>21</u>	<u>1541</u>
P 9 _____		<u>24</u>	<u>1640</u>			<u>24</u>	<u>1578</u>
P10 _____		<u>27</u>	<u>1662</u>			<u>27</u>	<u>1599</u>
P11 _____		<u>30</u>	<u>1690</u>			<u>30</u>	<u>1623</u>
P12 _____		<u>33</u>	<u>1711</u>			<u>33</u>	<u>1644</u>
P13 _____		<u>36</u>	<u>1730</u>			<u>36</u>	<u>1661</u>
P14 _____		<u>39</u>	<u>1747</u>			<u>39</u>	<u>1675</u>
P15 _____		<u>42</u>	<u>1759</u>			<u>42</u>	<u>1686</u>
P16 _____		<u>45</u>	<u>1772</u>			<u>45</u>	<u>1699</u>
P17 _____		<u>48</u>	<u>1783</u>			<u>48</u>	<u>1710</u>
P18 _____		<u>51</u>	<u>1792</u>			<u>51</u>	<u>1722</u>
P19 _____		<u>54</u>	<u>1803</u>			<u>54</u>	<u>1731</u>
P20 _____		<u>57</u>	<u>1809</u>			<u>57</u>	<u>1733</u>
		<u>60</u>	<u>1809</u>			<u>60</u>	<u>1742</u>
						<u>63</u>	<u>1746</u>
						<u>66</u>	<u>1750</u>

TK #13778

1566

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Company Gould Oil, Inc./Logo, Inc. Lease & Well No. Jobe #1
Elevation 1904 Kelly Bushing Information Mississippi Effective Pay - Ft. Ticket No. 13779
Date 11/ 28/81 Sec. 21 Twp. 33S Range 17W County Comanche State Kansas
Test Approved by E. K. Wood Western Representative Mike Rogers

Formation Test No. 2 Interval Tested from 5160 ft. to 5207 ft. Total Depth 5305 ft.

Packer Depth 5155 ft. Size 6 5/8 in. Packer Depth 5207 ft. Size 6 5/8 in.

Packer Depth 5160 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5262 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 5166 ft. Recorder Number 13271 Cap. 4400

Below Straddle Recorder Depth 5302 ft. Recorder Number 3086 Cap. 4500

Drilling Contractor Eagle Drilling Rig #1 Drill Collar Length 430 I. D. 2.2 in.

Mud Type chemical Viscosity 43 3 D. C. tail 93 I. D. 2.2 in.

Weight 9.4 Water Loss 12.8 cc. Drill Pipe Length 4708 I. D. 3.8 in.

Chlorides 16,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 3660 Anchor Length 47 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: Fair building to strong then slightly depleting on initial flow period. Very weak
one fourth inch on final flow period.

Recovered 180 ft. of drilling mud

Recovered 60 ft. of drilling mud with a few oil specks

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:30 ~~A.M.~~ P.M. Time Started Off Bottom 1:30 ~~P.M.~~ A.M. Maximum Temperature 125°

Initial Hydrostatic Pressure 2680 (A) P.S.I.

Initial Flow Period 30 Minutes (B) 89 * P.S.I. to (C) 162 * P.S.I.

Initial Closed In Period 54 Minutes (D) 431 P.S.I.

Final Flow Period 30 Minutes (E) 192 P.S.I. to (F) 171 P.S.I.

Final Closed In Period 57 Minutes (G) 252 P.S.I.

Final Hydrostatic Pressure 2625 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 11/28/81 Recorder No. 1566 Capacity 4300 Test Ticket No. 13779
 Clock No. - Elevation 1904 Kelly Bushing Location 5162 Ft. 125
 Well Temperature 125 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2680 P.S.I.	10:30P	M
B First Initial Flow Pressure	89 * P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	162 * P.S.I.	60 Mins.	54 Mins.
D Initial Closed-in Pressure	431 P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	192 P.S.I.	60 Mins.	57 Mins.
F Second Final Flow Pressure	171 P.S.I.		
G Final Closed-in Pressure	252 P.S.I.		
H Final Hydrostatic Mud	2625 P.S.I.		

* PRESSURES QUESTIONABLE DUE TO PLUGGING ACTION

PRESSURE BREAKDOWN

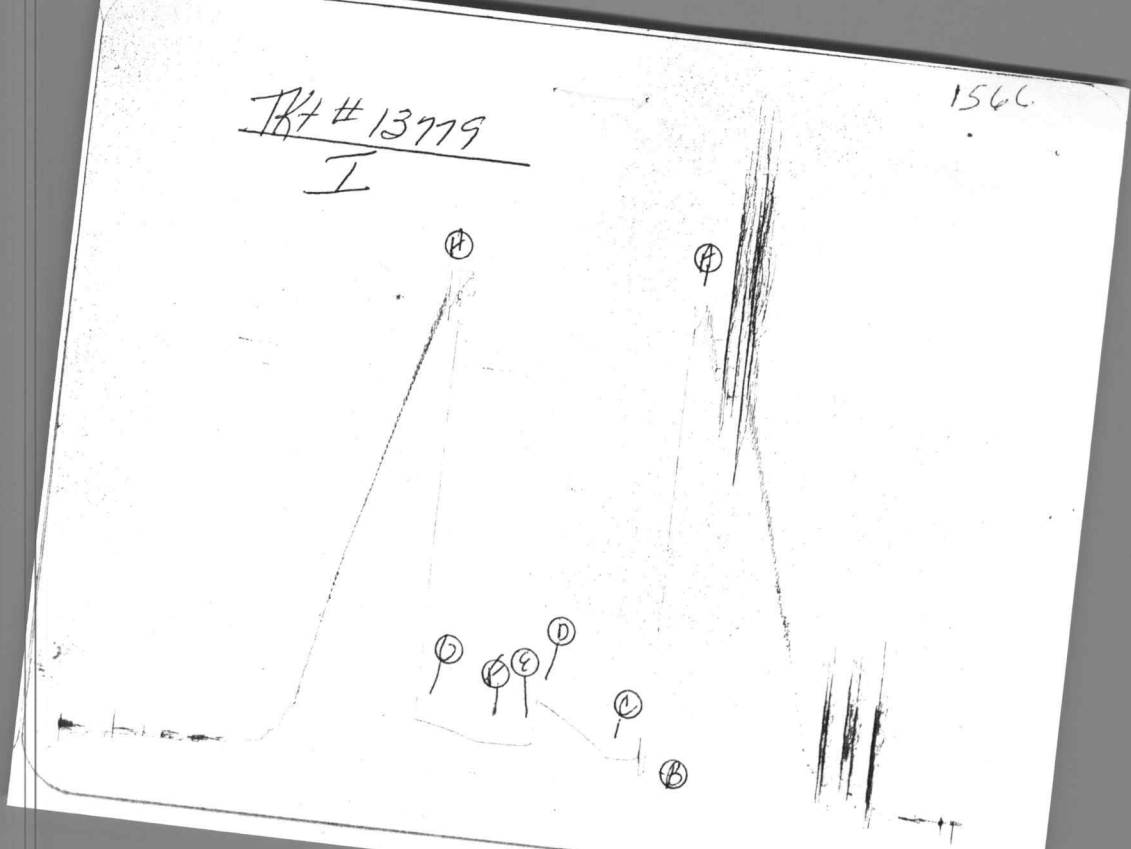
First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>18</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>19</u> Inc. 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>	89 *	0	162 *	0	192	0	171
P 2 <u>5</u>	186 *	3	188	5	179	3	171
P 3 <u>10</u>	166 *	6	207	10	175	6	171
P 4 <u>15</u>	163 *	9	225	15	174	9	171
P 5 <u>20</u>	162 *	12	240	20	173	12	175
P 6 <u>25</u>	162 *	15	255	25	172	15	180
P 7 <u>30</u>	162 *	18	270	30	171	18	186
P 8		21	285			21	194
P 9		24	303			24	203
P10		27	316			27	210
P11		30	331			30	216
P12		33	344			33	220
P13		36	357			36	227
P14		39	370			39	230
P15		42	385			42	234
P16		45	396			45	241
P17		48	409			48	244
P18		51	420			51	248
P19		54	431			54	251
P20						57	252

TK# 13779
Below Straddle



TK #13779
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1566



Company Gould Oil, Inc. / Logo, Inc. Lease & Well No. Jobe#1
Elevation 1904 Kelly Bushing Formation Viola Effective Pay - Ft. Ticket No. 13780
Date 12/1/81 Sec. 21 Twp. 33S Range 17W County Comanche State Kansas
Test Approved by E. K. Wood Western Representative Mike Rogers

Formation Test No. 3 Interval Tested from 5770 ft. to 5885 ft. Total Depth 5885 ft.
Packer Depth 5765 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 5770 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5773 ft. Recorder Number 1566 Cap. 4300
Bottom Recorder Depth (Outside) 5777 ft. Recorder Number 3086 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Eagle Drlg. Rig #1 Drill Collar Length 460 I. D. 2.2 in.
Mud Type chemical Viscosity 49 Weight Pipe Length - I. D. - in.
Weight 9.2 Water Loss 10.2 cc. Drill Pipe Length 5280 I. D. 3.8 in.
Chlorides 9,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 in.
Jars: Make WTC Serial Number 3660 90'-30' DC in anchor 115' Size 5 1/2 in.
Did Well Flow? No Reversed Out Yes Anchor Length - ft.
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.

Strong blow throughout test. No gas to surface
Blow:

Recovered 450 ft. of drilling mud with a very slight oil stain.

Recovered 3900 ft. of salt water with 89,000 ppm chlorides

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 1:00 ~~P.M.~~ A.M. Time Started Off Bottom 4:00 ~~P.M.~~ A.M. Maximum Temperature 140°
Initial Hydrostatic Pressure 2912 (A) 2912 P.S.I.
Initial Flow Period 30 Minutes (B) 979 P.S.I. to (C) 1643 P.S.I.
Initial Closed In Period 57 Minutes (D) 2136 P.S.I.
Final Flow Period 30 Minutes (E) 1870 P.S.I. to (F) 2069 P.S.I.
Final Closed In Period 60 Minutes (G) 2165 P.S.I.
Final Hydrostatic Pressure 2778 (H) 2778 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/1/81

Recorder No. 1566

Clock No. --

Capacity 4300

Elevation 1904 Kelly Bushing

Test Ticket No. 13780

Location 5773

Well Temperature 140 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2912	P.S.I.	1:00A	M
B First Initial Flow Pressure	979	P.S.I.	30	30
C First Final Flow Pressure	1643	P.S.I.	60	57
D Initial Closed-in Pressure	2136	P.S.I.	30	30
E Second Initial Flow Pressure	1870	P.S.I.	60	60
F Second Final Flow Pressure	2069	P.S.I.		
G Final Closed-in Pressure	2165	P.S.I.		
H Final Hydrostatic Mud	2778	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: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

Final Shut-In
Breakdown: 20 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 0	979	0	1643	0	1870	0	2069
P 2 5	979	3	1887	5	1870	3	2098
P 3 10	1066	6	1954	10	1898	6	2111
P 4 15	1233	9	1991	15	1952	9	2121
P 5 20	1390	12	2022	20	1996	12	2128
P 6 25	1519	15	2037	25	2037	15	2132
P 7 30	1643	18	2054	30	2069	18	2137
P 8		21	2065			21	2142
P 9		24	2078			24	2147
P10		27	2088			27	2150
P11		30	2098			30	2152
P12		33	2105			33	2154
P13		36	2113			36	2156
P14		39	2118			39	2158
P15		42	2122			42	2159
P16		45	2127			45	2160
P17		48	2130			48	2161
P18		51	2131			51	2162
P19		54	2134			54	2163
P20		57	2136			57	2164
						60	2165

TKT #13780
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