

Company Rine Exploration Company Lease & Well No. #1-33 Schraeder
Elevation 2480 Formation Mississippi Effective Pay - Ft. Ticket No. 8698
Date 12-2-80 Sec. 33 Twp. 23S Range 24W County Hodgeman State Kansas
Test Approved by Brad Rine Western Representative Denis Wondra

Formation Test No. 1 Interval Tested from 4684 ft. to 4737 ft. Total Depth 4737 ft.

Packer Depth 4679 ft. Size 6 5/8 in. Packer Depth 4684 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) 4694 ft. Recorder Number 3474 Cap. 3000

Bottom Recorder Depth (Outside) 4697 ft. Recorder Number 3659 Cap. 4000

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

Drilling Contractor Slawson Rig #1 Drill Collar Length 366 I. D. 2.7 in.

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

Weight 9.3 Water Loss 12.0 cc. Drill Pipe Length 4291 I. D. 3.8 in.

Chlorides 14,000 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 403 Anchor Length 53 ft. Size 5 1/2 OD in.

Did Well Flow? Yes 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 FH in.

Blow: Good. Increased to very good in fifteen minutes on initial flow period. Good throughout final flow period.

Recovered 10 ft. of free oil

Recovered 410 ft. of oil cut mud - 10% oil; 85% mud; 1% water

Recovered 62 ft. of slightly oil cut mud - 10% oil; 85% mud; 1% water

Recovered 62 ft. of oil cut watery mud - 3% oil; 75% mud; 22% water

Recovered 62 ft. of oil cut muddy water - 3% oil; 40% mud; 57% water

Remarks: Chlorides 10,000 PPM

Time Set Packer(s) 5:58 A.M. Time Started Off Bottom 9:15 A.M. Maximum Temperature 123

Initial Hydrostatic Pressure (A) 2277 P.S.I.

Initial Flow Period Minutes 25 (B) 73* P.S.I. to (C) 250* P.S.I.

Initial Closed In Period Minutes 42 (D) 1265 P.S.I.

Final Flow Period Minutes 50 (E) 265 P.S.I. to (F) 300 P.S.I.

Final Closed In Period Minutes 54 (G) 1267 P.S.I.

Final Hydrostatic Pressure (H) 2265 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12-2-80 Test Ticket No. 8698
 Recorder No. 3474 Capacity 3000 Location 4694 Ft.
 Clock No. - Elevation 2480 Well Temperature 123 °F

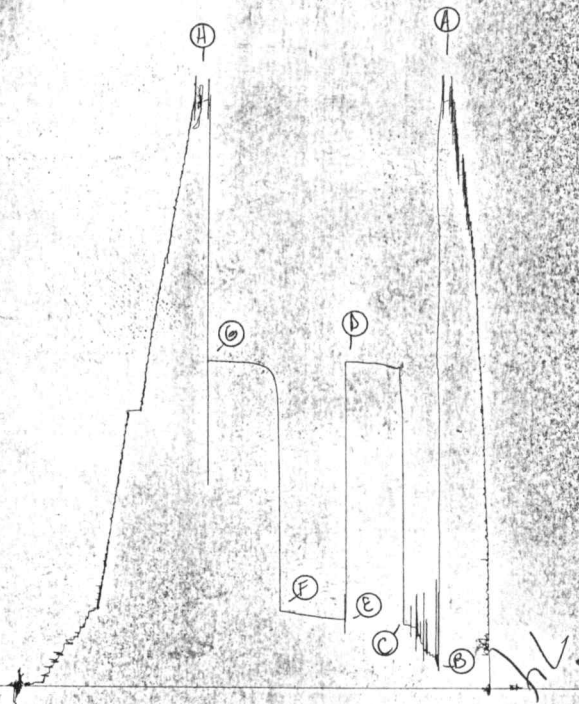
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2277 P.S.I.	5:58A	M
B First Initial Flow Pressure	73* P.S.I.	30 Mins.	25 Mins.
C First Final Flow Pressure	250* P.S.I.	45 Mins.	42 Mins.
D Initial Closed-in Pressure	1265 P.S.I.	60 Mins.	50 Mins.
E Second Initial Flow Pressure	265 P.S.I.	60 Mins.	54 Mins.
F Second Final Flow Pressure	300 P.S.I.	*Pressures questionable due to plugging action.	
G Final Closed-in Pressure	1267 P.S.I.		
H Final Hydrostatic Mud	2265 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>18</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>73*</u>	<u>0</u>	<u>250*</u>	<u>0</u>	<u>265</u>	<u>0</u>	<u>300</u>
P 2 <u>5</u>	<u>130*</u>	<u>3</u>	<u>1242</u>	<u>5</u>	<u>270</u>	<u>3</u>	<u>1161</u>
P 3 <u>10</u>	<u>150*</u>	<u>6</u>	<u>1245</u>	<u>10</u>	<u>273</u>	<u>6</u>	<u>1217</u>
P 4 <u>15</u>	<u>198*</u>	<u>9</u>	<u>1250</u>	<u>15</u>	<u>274</u>	<u>9</u>	<u>1236</u>
P 5 <u>20</u>	<u>241*</u>	<u>12</u>	<u>1253</u>	<u>20</u>	<u>277</u>	<u>12</u>	<u>1244</u>
P 6 <u>25</u>	<u>250*</u>	<u>15</u>	<u>1256</u>	<u>25</u>	<u>282</u>	<u>15</u>	<u>1252</u>
P 7 _____		<u>18</u>	<u>1259</u>	<u>30</u>	<u>285</u>	<u>18</u>	<u>1256</u>
P 8 _____		<u>21</u>	<u>1262</u>	<u>35</u>	<u>289</u>	<u>21</u>	<u>1259</u>
P 9 _____		<u>24</u>	<u>1262</u>	<u>40</u>	<u>294</u>	<u>24</u>	<u>1261</u>
P10 _____		<u>27</u>	<u>1263</u>	<u>45</u>	<u>298</u>	<u>27</u>	<u>1262</u>
P11 _____		<u>30</u>	<u>1264</u>	<u>50</u>	<u>300</u>	<u>30</u>	<u>1262</u>
P12 _____		<u>33</u>	<u>1264</u>			<u>33</u>	<u>1262</u>
P13 _____		<u>36</u>	<u>1264</u>			<u>36</u>	<u>1263</u>
P14 _____		<u>39</u>	<u>1264</u>			<u>39</u>	<u>1263</u>
P15 _____		<u>42</u>	<u>1265</u>			<u>42</u>	<u>1264</u>
P16 _____						<u>45</u>	<u>1265</u>
P17 _____						<u>48</u>	<u>1266</u>
P18 _____						<u>51</u>	<u>1267</u>
P19 _____						<u>54</u>	<u>1267</u>
P20 _____							

MKT # 8698

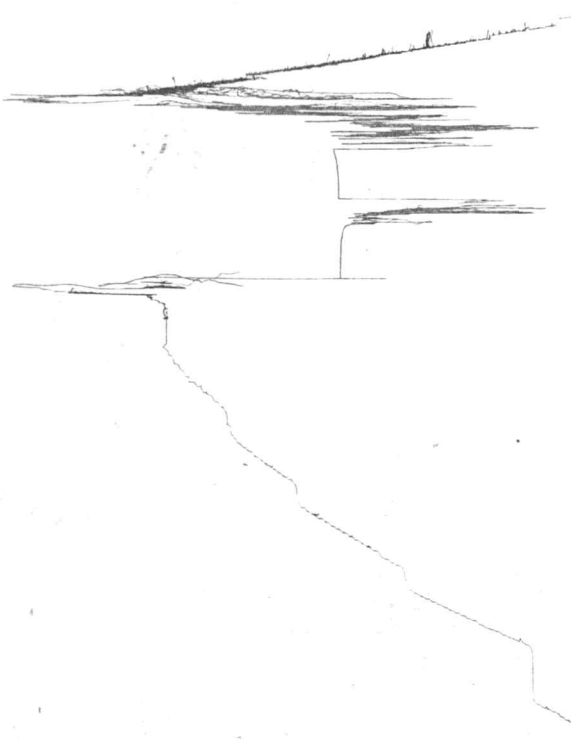
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Company Rine Exploration Company Lease & Well No. #1-33 Schraeder
 Elevation 2480 Formation Mississippi Effective Pay - Ft. Ticket No. 8699
 Date 12-3-80 Sec. 33 Twp. 23S Range 24W County Hodgeman State Kansas
 Test Approved by Brad Rine Western Representative Densi Wondra
 Formation Test No. 2 Interval Tested from 4734 ft. to 4740 ft. Total Depth 4740 ft.
 Packer Depth 4729 ft. Size 6 5/8 in. Packer Depth 4734 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) 4724 ft. Recorder Number 3474 Cap. 3000
 Bottom Recorder Depth (Outside) 4736 ft. Recorder Number 3659 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Slawson Drilling Rig #1 Drill Collar Length 366 I. D. 2.7 in.
 Mud Type Drispac Viscosity 58 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 7.6 cc. Drill Pipe Length 4336 I. D. 3.8 in.
 Chlorides 17,000 P.P.M. Test Tool Length 32 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 403 Anchor Length 6 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 steady throughout initial flow period. Very weak. Decreasing throughout final flow period.
 Recovered 120 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks: Pressures incorrect due to plugging. MISRUN

Time Set Packer(s) 10:28 A.M. Time Started Off Bottom 12:45 P.M. Maximum Temperature 116
 Initial Hydrostatic Pressure 2184 (A) P.S.I.
 Initial Flow Period Minutes (B) P.S.I. to (C) P.S.I.
 Initial Closed In Period Minutes (D) P.S.I.
 Final Flow Period Minutes (E) P.S.I. to (F) P.S.I.
 Final Closed In Period Minutes (G) P.S.I.
 Final Hydrostatic Pressure 2175 (H) P.S.I.

TKT # 8699
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TKT # 8699
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