

Company Kansas Oil Corporation Lease & Well No. Lingenfelder #1
 Elevation 2283 Kelly Bushing Mississippi Formation Effective Pay --- Ft. Ticket No. 8578
 Date 10/3/80 Sec. 16 Twp. 22S Range 22W County Hodgeman State Kansas
 Test Approved by Paul Laird Western Representative Denis Wondar

Formation Test No. 1 Interval Tested from 4467 ft. to 4516 ft. Total Depth 4516 ft.
 Packer Depth 4462 ft. Size 6 5/8 in. Packer Depth 4467 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) 4471 ft. Recorder Number 3474 Cap. 3000
 Bottom Recorder Depth (Outside) 4474 ft. Recorder Number 3659 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Spartan Drlg. Rig #1 Drill Collar Length 244 I. D. 2.7 in.
 Mud Type starch Viscosity 44 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 14.4 cc. Drill Pipe Length 4202 I. D. 3.8 in.
 Chlorides 64,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 49 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 XH in.

Blow: Good. Increased to strong in fifteen minutes on initial flow. Very good throughout final flow.

Recovered 105 ft. of slightly oil cut watery mud
 Recovered 490 ft. of slightly oil and gas cut muddy water (45% mud;10% oil;45% water)
 Recovered 740 ft. of oily gas cut water (15% oil;5% mud;80% water)
 Recovered 250 ft. of very slightly oil and gas cut water
 Recovered ft. of Chlorides 25,000 ppm

Remarks:

Time Set Packer(s) 10:43 ~~P.M.~~ A.M. Time Started Off Bottom 1:45 ~~P.M.~~ A.M. Maximum Temperature 129°
 Initial Hydrostatic Pressure (A) 2372 P.S.I.
 Initial Flow Period Minutes 30 (B) 100 P.S.I. to (C) 447 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1338 P.S.I.
 Final Flow Period Minutes 30 (E) 502 P.S.I. to (F) 700 P.S.I.
 Final Closed In Period Minutes 60 (G) 1339 P.S.I.
 Final Hydrostatic Pressure (H) 2372 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 10-3-80

Test Ticket No. 8578

Recorder No. 3474

Capacity 3000

Location 4471 Ft.

Clock No. -

Elevation 2283 Kelly Bushing

Well Temperature 129 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2372</u> P.S.I.	Open Tool	<u>10:43A</u> M	
B First Initial Flow Pressure	<u>100</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>447</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1338</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>502</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>700</u> P.S.I.			
G Final Closed-in Pressure	<u>1339</u> P.S.I.			
H Final Hydrostatic Mud	<u>2372</u> 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: 20 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 <u>0</u>	<u>100</u>	<u>0</u>	<u>447</u>	<u>0</u>	<u>502</u>	<u>0</u>	<u>700</u>
P 2 <u>5</u>	<u>183</u>	<u>3</u>	<u>1100</u>	<u>5</u>	<u>520</u>	<u>3</u>	<u>1139</u>
P 3 <u>10</u>	<u>232</u>	<u>6</u>	<u>1171</u>	<u>10</u>	<u>562</u>	<u>6</u>	<u>1195</u>
P 4 <u>15</u>	<u>289</u>	<u>9</u>	<u>1203</u>	<u>15</u>	<u>602</u>	<u>9</u>	<u>1223</u>
P 5 <u>20</u>	<u>344</u>	<u>12</u>	<u>1223</u>	<u>20</u>	<u>642</u>	<u>12</u>	<u>1239</u>
P 6 <u>25</u>	<u>394</u>	<u>15</u>	<u>1242</u>	<u>25</u>	<u>674</u>	<u>15</u>	<u>1256</u>
P 7 <u>30</u>	<u>447</u>	<u>18</u>	<u>1256</u>	<u>30</u>	<u>700</u>	<u>18</u>	<u>1268</u>
P 8 _____	_____	<u>21</u>	<u>1267</u>	_____	_____	<u>21</u>	<u>1277</u>
P 9 _____	_____	<u>24</u>	<u>1277</u>	_____	_____	<u>24</u>	<u>1286</u>
P10 _____	_____	<u>27</u>	<u>1286</u>	_____	_____	<u>27</u>	<u>1292</u>
P11 _____	_____	<u>30</u>	<u>1295</u>	_____	_____	<u>30</u>	<u>1298</u>
P12 _____	_____	<u>33</u>	<u>1303</u>	_____	_____	<u>33</u>	<u>1305</u>
P13 _____	_____	<u>36</u>	<u>1308</u>	_____	_____	<u>36</u>	<u>1309</u>
P14 _____	_____	<u>39</u>	<u>1314</u>	_____	_____	<u>39</u>	<u>1315</u>
P15 _____	_____	<u>42</u>	<u>1320</u>	_____	_____	<u>42</u>	<u>1320</u>
P16 _____	_____	<u>45</u>	<u>1324</u>	_____	_____	<u>45</u>	<u>1323</u>
P17 _____	_____	<u>48</u>	<u>1327</u>	_____	_____	<u>48</u>	<u>1327</u>
P18 _____	_____	<u>51</u>	<u>1331</u>	_____	_____	<u>51</u>	<u>1332</u>
P19 _____	_____	<u>54</u>	<u>1335</u>	_____	_____	<u>54</u>	<u>1335</u>
P20 _____	_____	<u>57</u>	<u>1337</u>	_____	_____	<u>57</u>	<u>1336</u>
WTC - 4		<u>60</u>	<u>1338</u>			<u>60</u>	<u>1339</u>

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