



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 4120

KC KANSAS CITY

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 838-0601

Elevation Formation Eff. Pay Ft.

District WeKeena Date 8-10-80 Customer Order No.

COMPANY NAME K&E Dols, Inc.

ADDRESS 816 Union Center, Wichita, Ks. 67202

LEASE AND WELL NO Gardner #1 COUNTY Trego STATE Ks Sec. 6 Twp 11S Rge 24W

Mail Invoice To Same Co. Name Address No. Copies Requested 5

Mail Charts To Co. Name Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3761 ft. to 3808 ft. Total Depth 3808 ft.
Packer Depth 3761 ft. Size 6 3/4 in.
Packer Depth 3736 ft. Size 6 3/4 in.

Top Recorder Depth (Inside) 3763 ft. Recorder Number 4331 Cap. 4150
Bottom Recorder Depth (Outside) 3766 ft. Recorder Number 13240 Cap. 4500
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Akercomb Rig 1 Drill Collar Length 674' I. D. 2.25 in.
Mud Type starch Viscosity 42 Weight Pipe Length I. D. in.
Weight 9.6 Water Loss cc. Drill Pipe Length 3066 I. D. 2.8 in.
Chlorides P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
Jars: Make None Serial Number 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 1/8 in. Tool Joint Size 4 1/2 x 1 1/2 in.

Blow: Fair Blow Thru/out Both openings flow

Recovered 60 ft. of Gas in Pipe GAS cut mud
Recovered 60 ft. of Med. O.G.C.M. oil 20% O.I. 30% Water 50% Mud
Recovered 240 ft. of Moy G.C.O. Gas 50% O.I. 25% Water 25% Mud
Recovered 180 ft. of Moy Froggy O.I. cut on
Recovered 480 ft. of Total Fluid

Remarks:
Arr. 10:00 11:30 8:00
Time Set Packer(s) 1:10 A.M. P.M. Time Started Off Bottom 3:55 A.M. P.M. Maximum Temperature 108°
Initial Hydrostatic Pressure (A) 2004 P.S.I.
Initial Flow Period Minutes 30 (B) 98 P.S.I. to (C) 164 P.S.I.
Initial Closed In Period Minutes 43 (D) 1274 P.S.I.
Final Flow Period Minutes 30 (E) 186 P.S.I. to (F) 218 P.S.I.
Final Closed In Period Minutes 60 (G) 1274 P.S.I.
Final Hydrostatic Pressure (H) 1951 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

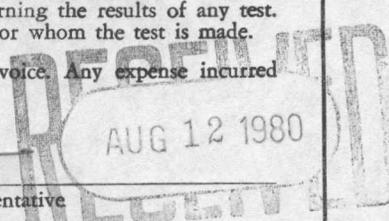
All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature] Signature of Customer or his authorized representative

Western Representative [Signature]

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$ 50.00
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$ 18.35 mi
Fluid Sampler \$
Extra Charts \$
TOTAL \$ 613.50



WESTERN TESTING CO., INC.

Pressure Data

Date 8-10-80 Test Ticket No. 4120
 Recorder No. 4331 Capacity 4150 Location 3763 Ft.
 Clock No. _____ Elevation _____ Well Temperature 108 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2004</u>	P.S.I.	<u>1:10 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>103</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>155</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1279</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>199</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>223</u>	P.S.I.		
G Final Closed-in Pressure	<u>1274</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1962</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: 15 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>0</u>	<u>155</u>	<u>0</u>	<u>199</u>	<u>0</u>	<u>223</u>
P 2	<u>5</u>	<u>3</u>	<u>707</u>	<u>5</u>	<u>197</u>	<u>3</u>	<u>746</u>
P 3	<u>10</u>	<u>6</u>	<u>1149</u>	<u>10</u>	<u>197</u>	<u>6</u>	<u>1115</u>
P 4	<u>15</u>	<u>9</u>	<u>1221</u>	<u>15</u>	<u>199</u>	<u>9</u>	<u>1179</u>
P 5	<u>20</u>	<u>12</u>	<u>1236</u>	<u>20</u>	<u>210</u>	<u>12</u>	<u>1196</u>
P 6	<u>25</u>	<u>15</u>	<u>1247</u>	<u>25</u>	<u>218</u>	<u>15</u>	<u>1211</u>
P 7	<u>30</u>	<u>18</u>	<u>1251</u>	<u>30</u>	<u>223</u>	<u>18</u>	<u>1219</u>
P 8	<u>35</u>	<u>21</u>	<u>1257</u>	<u>35</u>		<u>21</u>	<u>1225</u>
P 9	<u>40</u>	<u>24</u>	<u>1264</u>	<u>40</u>		<u>24</u>	<u>1230</u>
P10	<u>45</u>	<u>27</u>	<u>1268</u>	<u>45</u>		<u>27</u>	<u>1234</u>
P11	<u>50</u>	<u>30</u>	<u>1270</u>	<u>50</u>		<u>30</u>	<u>1238</u>
P12	<u>55</u>	<u>33</u>	<u>1272</u>	<u>55</u>		<u>33</u>	<u>1242</u>
P13	<u>60</u>	<u>36</u>	<u>1274</u>	<u>60</u>		<u>36</u>	<u>1245</u>
P14		<u>39</u>	<u>1276</u>	<u>65</u>		<u>39</u>	<u>1250</u>
P15		<u>42</u>	<u>1278</u>	<u>70</u>		<u>42</u>	<u>1255</u>
P16		<u>45</u>	<u>1279</u>	<u>75</u>		<u>45</u>	<u>1261</u>
P17		<u>48</u>		<u>80</u>		<u>48</u>	<u>1266</u>
P18		<u>51</u>		<u>85</u>		<u>51</u>	<u>1268</u>
P19		<u>54</u>		<u>90</u>		<u>54</u>	<u>1270</u>
P20		<u>57</u>				<u>57</u>	<u>1272</u>
		<u>60</u>				<u>60</u>	<u>1274</u>

Company K. & E. Drilling, Inc. Lease & Well No. Gardner #1
 Elevation ----- Formation Kansas City Effective Pay ----- Ft. Ticket No. 4120 4120
 Date 8/10/80 Sec. 6 Twp. 11S Range. 24W County. Trego State. Kansas
 Test Approved by Thomas R. Satter Western Representative Steve Michellich

Formation Test No. 1 Interval Tested from 3761 ft. to 3808 ft. Total Depth 3808 ft.
 Packer Depth 3761 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3756 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3763 ft. Recorder Number 4331 Cap. 4150
 Bottom Recorder Depth (Outside) 3766 ft. Recorder Number 13240 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Abercrombie Drilling Rig #1 Drill Collar Length 674 I. D. 2.25 in.
 Mud Type starch Viscosity 42 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss - cc. Drill Pipe Length 3066 I. D. 3.8 in.
 Chlorides -- P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make None Serial Number - 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 XH in.

Blow: Fair blow throughout both flow periods.

Recovered 60 ft. of gas in pipe
 Recovered 60 ft. of medium oil and gas cut mud (20% oil;30% water;50% mud)
 Recovered 240 ft. of muddy gas cut oil (50% oil;25% water;25% mud)
 Recovered 180 ft. of muddy froggy oil
 Recovered 480 ft. of Total fluid

Remarks: _____

Time Set Packer(s) 1:10 ~~P.M.~~ A.M. Time Started Off Bottom 3:55 ~~P.M.~~ A.M. Maximum Temperature 108°
 Initial Hydrostatic Pressure (A) 2004 P.S.I.
 Initial Flow Period Minutes 30 (B) 103 P.S.I. to (C) 155 P.S.I.
 Initial Closed In Period Minutes 45 (D) 1279 P.S.I.
 Final Flow Period Minutes 30 (E) 199 P.S.I. to (F) 223 P.S.I.
 Final Closed In Period Minutes 60 (G) 1274 P.S.I.
 Final Hydrostatic Pressure (H) 1962 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8-10-80

Test Ticket No. 4120

Recorder No. 4331

Capacity 4150

Location 3763 Ft.

Clock No. -----

Elevation -----

Well Temperature 108 °F

Point	Pressure		Time Given		Time Computed	
			1:10	P. M.		
A Initial Hydrostatic Mud	2004	P.S.I.				
B First Initial Flow Pressure	103	P.S.I.	30	Mins.	30	Mins.
C First Final Flow Pressure	155	P.S.I.	45	Mins.	45	Mins.
D Initial Closed-in Pressure	1279	P.S.I.	30	Mins.	30	Mins.
E Second Initial Flow Pressure	199	P.S.I.	60	Mins.	60	Mins.
F Second Final Flow Pressure	223	P.S.I.				
G Final Closed-in Pressure	1274	P.S.I.				
H Final Hydrostatic Mud	1962	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: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

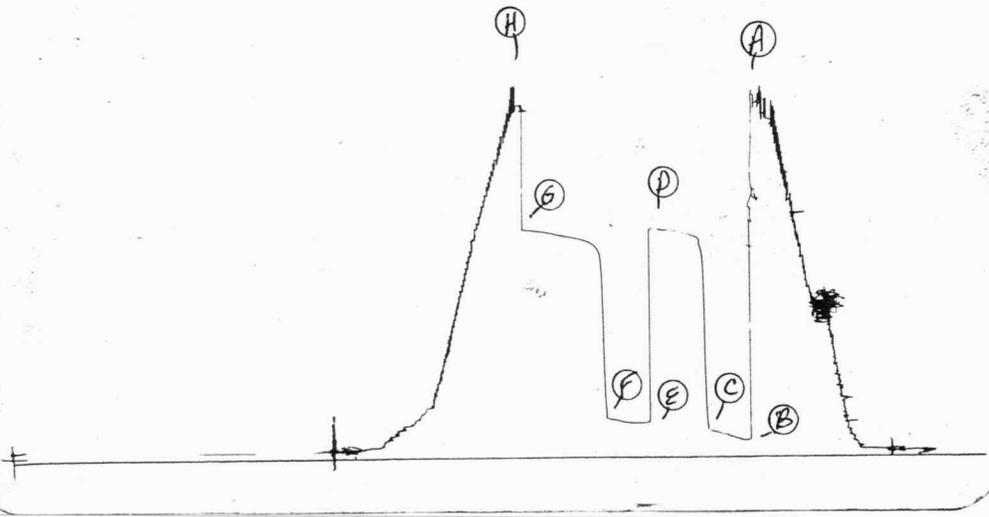
Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

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.
P 1	0	103	0	55	155	0		223
P 2	5	98	3		707	3		746
P 3	10	111	6		1149	6		1115
P 4	15	124	9		1221	9		1179
P 5	20	135	12		1236	12		1196
P 6	25	146	15		1247	15		1211
P 7	30	155	18		1251	18		1219
P 8			21		1257	21		1225
P 9			24		1264	24		1230
P10			27		1268	27		1234
P11			30		1270	30		1238
P12			33		1272	33		1242
P13			36		1274	36		1245
P14			39		1276	39		1250
P15			42		1278	42		1255
P16			45		1279	45		1261
P17						48		1266
P18						51		1268
P19						54		1270
P20						57		1272
						60		1274

SWT # 4120
I

4331
4120





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 4121

KC KANSAS CITY

P. O. BOX 1599 WICHITA, KANSAS 67201

Elevation Formation Eff. Pay Ft.

District Wakeney Date 8-11-80 Customer Order No.

COMPANY NAME K & E Drilling, Inc.

ADDRESS 816 Union Center, Wichita, Ks.

LEASE AND WELL NO Gardner #1 COUNTY Trego STATE Ks Sec. 6 Twp 11s Rge 24w

Mail Invoice To Some Co. Name Address No. Copies Requested 5

Mail Charts To Address No. Copies Requested 5

Formation Test No. 2 Interval Tested from 3815 ft. to 3856 ft. Total Depth 3856 ft.
Packer Depth 3815 ft. Size 6 3/4 in. Packer Depth 3810 ft. Size 6 3/4 in.

Top Recorder Depth (Inside) 3817 ft. Recorder Number 4331 Cap. 4150
Bottom Recorder Depth (Outside) 3820 ft. Recorder Number 13240 Cap. 4500
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Abernombrie Rig 1 Drill Collar Length 674 I. D. 2.25 in.
Mud Type Starch Viscosity 48 Weight Pipe Length I. D. in.
Weight 9.6 Water Loss 9.8 cc Drill Pipe Length 3116 I. D. 3.8 in.
Chlorides P.P.M. Test Tool Length 21' ft. Tool Size 5 1/2 in.
Jars: Make None Serial Number Anchor Length 41' 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 x 1 1/4 in.

Blow: Initial Flow
1st Opening - Weak Blow Dried in 19 min.
2nd Opening - Weak Blow Dried in 1 min

Recovered 63 ft. of Oil Specked Mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

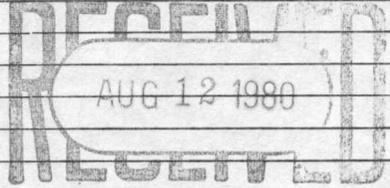


Table with 4 columns: Time Set, Packer(s), Time Started Off Bottom, Maximum Temperature. Includes rows for Initial Hydrostatic Pressure, Initial Flow Period, Initial Closed In Period, Final Flow Period, Final Closed In Period, Final Hydrostatic Pressure.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made...

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature] Signature of Customer or his authorized representative

Western Representative [Signature] Steve Michellish

FIELD INVOICE

Table with 2 columns: Item, Price. Includes Open Hole Test (\$550.00), Safety Joint (\$50.00), TOTAL (\$613.50).

WESTERN TESTING CO., INC.

Pressure Data

Date 8-11-80 Test Ticket No. 4121
 Recorder No. 4331 Capacity 4150 Location 3817 Ft.
 Clock No. _____ Elevation _____ Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2048</u>	P.S.I.	<u>6:40</u>	<u>A M</u>
B First Initial Flow Pressure	<u>68</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>59</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1262</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>82</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
F Second Final Flow Pressure	<u>72</u>	P.S.I.		
G Final Closed-in Pressure	<u>1240</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1953</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>0</u>	<u>59</u>	<u>0</u>	<u>82</u>	<u>0</u>	<u>72</u>
P 2	<u>5</u>	<u>3</u>	<u>469</u>	<u>5</u>	<u>74</u>	<u>3</u>	<u>437</u>
P 3	<u>10</u>	<u>6</u>	<u>841</u>	<u>10</u>	<u>72</u>	<u>6</u>	<u>782</u>
P 4	<u>15</u>	<u>9</u>	<u>1111</u>	<u>15</u>		<u>9</u>	<u>1057</u>
P 5	<u>20</u>	<u>12</u>	<u>1185</u>	<u>20</u>		<u>12</u>	<u>1189</u>
P 6	<u>25</u>	<u>15</u>	<u>1223</u>	<u>25</u>		<u>15</u>	<u>1202</u>
P 7	<u>30</u>	<u>18</u>	<u>1236</u>	<u>30</u>	<u>72</u>	<u>18</u>	<u>1211</u>
P 8	<u>35</u>	<u>21</u>	<u>1246</u>	<u>35</u>		<u>21</u>	<u>1221</u>
P 9	<u>40</u>	<u>24</u>	<u>1251</u>	<u>40</u>		<u>24</u>	<u>1228</u>
P10	<u>45</u>	<u>27</u>	<u>1255</u>	<u>45</u>		<u>27</u>	<u>1236</u>
P11	<u>50</u>	<u>30</u>	<u>1262</u>	<u>50</u>		<u>30</u>	<u>1240</u>
P12	<u>55</u>	<u>33</u>		<u>55</u>		<u>33</u>	
P13	<u>60</u>	<u>36</u>		<u>60</u>		<u>36</u>	
P14		<u>39</u>		<u>65</u>		<u>39</u>	
P15		<u>42</u>		<u>70</u>		<u>42</u>	
P16		<u>45</u>		<u>75</u>		<u>45</u>	
P17		<u>48</u>		<u>80</u>		<u>48</u>	
P18		<u>51</u>		<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

Company K. & E. Drilling, Inc. Lease & Well No. Gardner #1
 Elevation ----- Formation Kansas City Effective Pay ----- Ft. Ticket No. 4121
 Date 8/11/80 Sec. 6 Twp. 11S Range 24W County Trego State Kansas
 Test Approved by Thomas R. Satter Western Representative Steve Michellich

Formation Test No. 2 Interval Tested from 3815 ft. to 3856 ft. Total Depth 3856 ft.
 Packer Depth 3815 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3810 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3817 ft. Recorder Number 4331 Cap. 4150
 Bottom Recorder Depth (Outside) 3820 ft. Recorder Number 13240 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Abercrombie Drilling Rig #1 Drill Collar Length 674 I. D. 2.25 in.
 Mud Type starch Viscosity 48 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 9.8 cc. Drill Pipe Length 3116 I. D. 3.8 in.
 Chlorides -- P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make None Serial Number - Anchor Length 41 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 XH in.

Blow: Initial flow, weak blow died in nineteen minutes.
Final flow, weak blow died in one minute.

Recovered 63 ft. of oil specked mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 6:40 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 8:40 ~~P.M.~~ ^{A.M.} Maximum Temperature 109°
 Initial Hydrostatic Pressure 2048 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 68 P.S.I. to (C) 59 P.S.I.
 Initial Closed In Period 30 Minutes (D) 1262 P.S.I.
 Final Flow Period 30 Minutes (E) 82 P.S.I. to (F) 72 P.S.I.
 Final Closed In Period 30 Minutes (G) 1240 P.S.I.
 Final Hydrostatic Pressure 1953 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 8/11/80 Test Ticket No. 4121
 Recorder No. 4331 Capacity 4150 Location 3817 Ft.
 Clock No. ---- Elevation ---- Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2048</u> P.S.I.	Open Tool	<u>6:40A</u> M	
B First Initial Flow Pressure	<u>68</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>59</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1262</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>82</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>72</u> P.S.I.			
G Final Closed-in Pressure	<u>1240</u> P.S.I.			
H Final Hydrostatic Mud	<u>1953</u> P.S.I.			

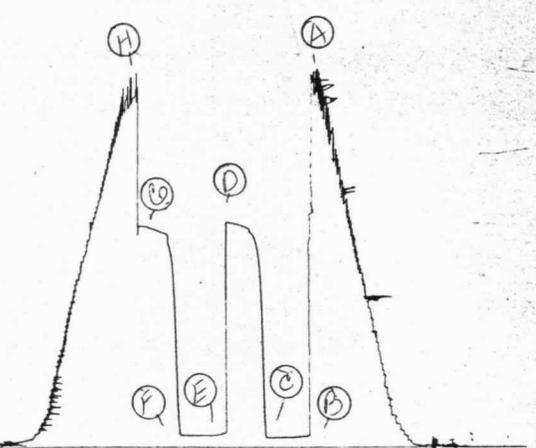
PRESSURE BREAKDOWN

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>68</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>82</u>	<u>0</u>	<u>72</u>
P 2 <u>5</u>	<u>63</u>	<u>3</u>	<u>469</u>	<u>5</u>	<u>74</u>	<u>3</u>	<u>437</u>
P 3 <u>10</u>	<u>61</u>	<u>6</u>	<u>841</u>	<u>10</u>	<u>72</u>	<u>6</u>	<u>782</u>
P 4 <u>15</u>	<u>59</u>	<u>9</u>	<u>1111</u>	<u>15</u>	<u>72</u>	<u>9</u>	<u>1057</u>
P 5 <u>20</u>	<u>59</u>	<u>12</u>	<u>1185</u>	<u>20</u>	<u>72</u>	<u>12</u>	<u>1189</u>
P 6 <u>25</u>	<u>59</u>	<u>15</u>	<u>1223</u>	<u>25</u>	<u>72</u>	<u>15</u>	<u>1202</u>
P 7 <u>30</u>	<u>59</u>	<u>18</u>	<u>1236</u>	<u>30</u>	<u>72</u>	<u>18</u>	<u>1211</u>
P 8 _____	_____	<u>21</u>	<u>1246</u>	_____	_____	<u>21</u>	<u>1221</u>
P 9 _____	_____	<u>24</u>	<u>1251</u>	_____	_____	<u>24</u>	<u>1228</u>
P10 _____	_____	<u>27</u>	<u>1255</u>	_____	_____	<u>27</u>	<u>1236</u>
P11 _____	_____	<u>30</u>	<u>1262</u>	_____	_____	<u>30</u>	<u>1240</u>
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

~~Plot # 4121~~
I

4331

4021





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No. 4122

P. O. BOX 1599 PHONE (316) 838-0601 WICHITA, KANSAS 67201

Elevation _____ Formation Kans City Eff. Pay _____ Ft.

at. District Wakeney Date 8-12-80 Customer Order No. ✓

COMPANY NAME K & E Drtg. Inc. Petroleum Inc.

ADDRESS 816 Union Center, Wichita, Ks. 67202

LEASE AND WELL NO. Gardner #1 COUNTY Trego STATE Ks Sec. 6 Twp 11s Rge 24w

Mail Invoice To Same Co. Name IT Address _____ No. Copies Requested 5

Mail Charts To _____ Address _____ No. Copies Requested 5

Formation Test No. 3 Interval Tested from 3885 ft. to 3953 ft. Total Depth 3953 ft.
Packer Depth 3885 ft. Size 6 3/4 in. Packer Depth ✓ ft. Size ✓ in.
Packer Depth 3880 ft. Size 6 3/4 in. Packer Depth ✓ ft. Size ✓ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3887 ft. Recorder Number 4331 Cap. 4150
Bottom Recorder Depth (Outside) 3890 ft. Recorder Number 13240 Cap. 4500
Below Straddle Recorder Depth ✓ ft. Recorder Number ✓ Cap. ✓

Drilling Contractor Abercrombie Rig #1 Drill Collar Length 674' I. D. 2.25 in.
Mud Type starch Viscosity 47 Weight Pipe Length ✓ I. D. ✓ in.
Weight 9.8 Water Loss 9.8 cc. Drill Pipe Length 3190 I. D. 3.8 in.
Chlorides 29,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
Jars: Make None Serial Number _____ Anchor Length 68 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 x H in.

Blow: Weak Blow through Both Openings flow periods

Recovered 60 ft. of Mud
Recovered 30 ft. of Slightly Oil cut Mud
Recovered 30 ft. of Oil cut Mud 20% Oil 20% Water 60% Mud
Recovered 120 ft. of Total Fluid
Recovered _____ ft. of _____

Remarks: read outside recorder

Time Set Packer(s) 1:00 2:30 4:40 11:00
Time Started Off Bottom 7:25 A.M. P.M. Maximum Temperature 110°
Initial Hydrostatic Pressure (A) 2086 P.S.I.
Initial Flow Period (B) 30 Minutes (C) 55 P.S.I. to 55 P.S.I.
Initial Closed In Period (D) 45 Minutes (E) 1113 P.S.I.
Final Flow Period (F) 30 Minutes (G) 87 P.S.I. to 87 P.S.I.
Final Closed In Period (H) 60 Minutes (I) 1113 P.S.I.
Final Hydrostatic Pressure (J) 2018 P.S.I.

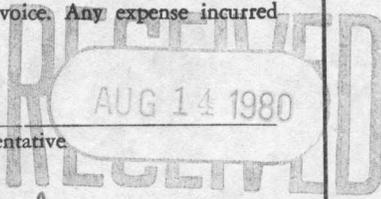
COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Thomas R. Sattler
Signature of Customer or his authorized representative

Western Representative Steve Muehllich



FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test (\$550.00), Safety Joint (\$50.00), Mileage 18 miles (\$135.00), and TOTAL (\$635.00).

WESTERN TESTING CO., INC.

Pressure Data

Date 8-12 Test Ticket No. 4122
 Recorder No. 13240 Capacity 4500 Location 3890 Ft.
 Clock No. _____ Elevation _____ Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2118</u>	P.S.I.	<u>4:40 AM</u>	
B First Initial Flow Pressure	<u>68</u>	P.S.I.	<u>30</u> Mins.	<u>35</u> Mins.
C First Final Flow Pressure	<u>65</u>	P.S.I.	<u>45</u> Mins.	<u>39</u> Mins.
D Initial Closed-in Pressure	<u>1119</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>93</u>	P.S.I.	<u>60</u> Mins.	<u>63</u> Mins.
F Second Final Flow Pressure	<u>88</u>	P.S.I.		
G Final Closed-in Pressure	<u>1117</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2034</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	of	Breakdown:	of	Breakdown:	of	Breakdown:	of
	<u>7</u> Inc.	<u>5</u> mins.	<u>13</u> Inc.	<u>3</u> mins.	<u>6</u> Inc.	<u>5</u> mins.	<u>21</u> Inc.	<u>3</u> mins.
	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>68</u>	0	<u>65</u>	0	<u>93</u>	0	<u>88</u>	
P 2	<u>65</u>	3	<u>77</u>	3	<u>88</u>	3	<u>88</u>	
P 3		6	<u>102</u>	6		6	<u>88</u>	
P 4		9	<u>156</u>	9		9	<u>102</u>	
P 5		12	<u>229</u>	12		12	<u>127</u>	
P 6		15	<u>340</u>	15		15	<u>164</u>	
P 7		18	<u>495</u>	18	<u>88</u>	18	<u>207</u>	
P 8	<u>65</u>	21	<u>661</u>	21		21	<u>275</u>	
P 9		24	<u>802</u>	24		24	<u>375</u>	
P10		27	<u>916</u>	27		27	<u>498</u>	
P11		30	<u>995</u>	30		30	<u>632</u>	
P12		33	<u>1054</u>	33		33	<u>743</u>	
P13		36	<u>1083</u>	36		36	<u>847</u>	
P14		39	<u>1119</u>	39		39	<u>918</u>	
P15		42		42		42	<u>970</u>	
P16		45		45		45	<u>1009</u>	
P17		48		48		48	<u>1036</u>	
P18		51		51		51	<u>1059</u>	
P19		54		54		54	<u>1078</u>	
P20		57		57		57	<u>1093</u>	
		60		60		60	<u>1105</u>	
							<u>63 1117</u>	

Company K. & E. Petroleum, Inc. Lease & Well No. Gardner #1
 Elevation ---- Formation Kansas City Effective Pay ---- Ft. Ticket No. 4122
 Date 8/12/80 Sec. 6 Twp. 11S Range 24W County Trego State Kansas
 Test Approved by Thomas R. Satler Western Representative Steve Michellich

Formation Test No. 3 Interval Tested from 3885 ft. to 3953 ft. Total Depth 3953 ft.
 Packer Depth 3885 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3880 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3887 ft. Recorder Number 4331 Cap. 4150
 Bottom Recorder Depth (Outside) 3890 ft. Recorder Number 13240 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Abercrombie Drilling Rig #1 Drill Collar Length 674 I. D. 2.25 in.
 Mud Type starch Viscosity 47 Weight Pipe Length - I. D. - in.
 Weight 9.8 Water Loss 9.8 cc. Drill Pipe Length 3190 I. D. 3.8 in.
 Chlorides 29,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make None Serial Number - Anchor Length 68 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 XH in.

Blow: Weak blow throughout both flow periods.

Recovered 60 ft. of mud
 Recovered 30 ft. of slightly oil cut mud
 Recovered 30 ft. of oil cut mud 20% oil;20% water;60% mud
 Recovered ft. of
 Recovered ft. of

Remarks: READ OUTSIDE RECORDER

Time Set Packer(s)	<u>4:40</u>	<u>A.M.</u> <u>P.M.</u>	Time Started Off Bottom	<u>7:25</u>	<u>A.M.</u> <u>P.M.</u>	Maximum Temperature	<u>110°</u>
Initial Hydrostatic Pressure			(A)	<u>2128</u>	P.S.I.		
Initial Flow Period			Minutes	<u>35</u>	(B)	<u>68</u>	P.S.I. to (C) <u>65</u> P.S.I.
Initial Closed In Period			Minutes	<u>39</u>	(D)	<u>1119</u>	P.S.I.
Final Flow Period			Minutes	<u>30</u>	(E)	<u>93</u>	P.S.I. to (F) <u>88</u> P.S.I.
Final Closed In Period			Minutes	<u>63</u>	(G)	<u>1117</u>	P.S.I.
Final Hydrostatic Pressure			(H)	<u>2034</u>	P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 8-12-80

Test Ticket No. 4122

Recorder No. 13240 Capacity 4500 Location 3890 Ft.

Clock No. _____ Elevation _____ Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2118 P.S.I.	Open Tool	4:40A M	
B First Initial Flow Pressure	68 P.S.I.	First Flow Pressure	30 Mins.	35 Mins.
C First Final Flow Pressure	65 P.S.I.	Initial Closed-in Pressure	45 Mins.	39 Mins.
D Initial Closed-in Pressure	1119 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	93 P.S.I.	Final Closed-in Pressure	60 Mins.	63 Mins.
F Second Final Flow Pressure	88 P.S.I.			
G Final Closed-in Pressure	1117 P.S.I.			
H Final Hydrostatic Mud	2034 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 13 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: 21 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	68	0	65	0	93	0	88
P 2 5	65	3	77	5	88	3	88
P 3 10	65	6	102	10	88	6	88
P 4 15	65	9	156	15	88	9	102
P 5 20	65	12	229	20	88	12	127
P 6 25	65	15	340	25	88	15	164
P 7 30	65	18	495	30	88	18	207
P 8 35	65	21	661			21	275
P 9		24	802			24	375
P10		27	916			27	498
P11		30	995			30	632
P12		33	1054			33	743
P13		36	1083			36	847
P14		39	1119			39	918
P15						42	970
P16						45	1009
P17						48	1036
P18						51	1059
P19						54	1078
P20						57	1093
						60	1105
						63	1117

Alt # 4122

0

13240

4122

