



P. O. BOX 793 PHONE 793-7903  
GREAT BEND, KANSAS

WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET 22666

Formation Simpson Elevation 1214 Ft. Pay 12 Ft.

District Augusta Date 12-14-77 Customer Order No. None

COMPANY NAME Dennis Energy Investments Co. Associated Petr. Consultants

ADDRESS Suite 645 300 W. Douglas Wichita 67202

LEASE AND WELL NO. Loyer #1 COUNTY Sumner STATE Ks Sec. 25 Twp. 30s Rge. 1E

Mail Inv. To Same No. Copies Requested 1

Mail Charts To Same No. Copies Requested 5

Name Address

Formation Test No. 1 O.K.  Misrun  Interval Tested From 3632' to 3684' Total Depth 3684'

Size Main Hole 7 7/8 Rat Hole 6 1/8 Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No

Top Packer Depth 3627 Ft. Size 6 3/4 O.D. Bottom Packer Depth 3632 Ft. Size 6 3/4 O.D.

Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth          Ft. Size         

Tool Size 4200 Tool Joint Size 3 1/2 IF Anchor Length 52 Ft. Size 4200 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3677 Ft. Clock No. 8474 Depth 3000 Ft. Clock No. 6896

Top Make Kuster Cap 4200 No. 1558 Inside Bottom Make Kuster Cap 4200 No. 1559 Outside

Below Straddle: Depth          Rec. No.          Clock No.          Outside Depth          Ft. Rec. No.          Clock No.          Outside

Time Set Packer 6:28 M

Tool Open I.F.P. From 6:30 M. to 7:15 M. Hr. 45 Min. From (B) 40 56 P.S.I. To (C) 40 42 P.S.I.

Tool Closed I.C.I.P. From 7:15 M. to 8:15 M. Hr. 60 Min. (D) 1340 1352 P.S.I.

Tool Open F.F.P. From 8:15 M. to 8:45 M. Hr. 30 Min. From (E) 50 68 P.S.I. To (F) 50 51 P.S.I.

Tool Closed F.C.I.P. From 8:45 M. to 9:45 P.M. Hr. 60 Min. (G) 1298 1305 P.S.I.

Initial Hydrostatic Pressure (A) 1790 P.S.I. Final Hydrostatic Pressure (H) 1790 P.S.I. Maximum Temp. 118

INFORMATION

BLOW Weak to very weak 45 minutes

Did Well Flow  Yes  No Recovery Total Ft. 45' Drilling mud few specks of solids

Reversed Out  Yes  No Mud Type Chem Viscosity 46 Weight 9.3 Water Loss 14.4 cc. Chlorides 7000 PPM.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint          Jars: Size          In. Make          Ser. No.         

Dual Packers Yes Did Packers Hold? Yes Did Tool Plug? No Where?         

DRILLING CONTRACTOR White & Ellis Drilling Length Drill Pipe 3282 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.

Length Weight Pipe          ft. I.D. Weight Pipe          In. Tool Joint Size          In. Length Drill Collars 330 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 In. Length D.S.T. Tool 72 ft. )

Remarks 6 1/2" core hole 3634' to 3684'

INVOICE SECTION

Open Hole Test	\$ <u>415.00</u>
Straddle Test	\$ <u>        </u>
Jars	\$ <u>        </u>
Selective Zone	\$ <u>        </u>
Safety Joint	\$ <u>        </u>
Misrun	\$ <u>        </u>
Evaluation	\$ <u>        </u>
Packer	\$ <u>        </u>
Circ. Sub.	\$ <u>        </u>
Total	\$ <u>415.00</u>

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage 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, or 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 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Norman Payne Western Representative Norman Allen

Signature of Customer or his Authorized Representative

Operator's Time          Hrs.

WESTERN TESTING CO., INC.

Pressure Data

are 12-14-77 Test Ticket No. 22666  
 order No. 1558 Capacity 4200 Location 3477 Ft.  
 ock No. 8474 Elevation 1214 Kelly Bushing Well Temperature 118 °F

Point	Pressure	Open Tool	Time Given	Time Computed
Initial Hydrostatic Mud	<u>1793</u> P.S.I.		<u>6:28</u> M	
First Initial Flow Pressure	<u>56</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
First Final Flow Pressure	<u>42</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
Initial Closed-in Pressure	<u>1352</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
Second Initial Flow Pressure	<u>68</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
Second Final Flow Pressure	<u>51</u> P.S.I.			
Final Closed-in Pressure	<u>1305</u> P.S.I.			
Final Hydrostatic Mud	<u>1793</u> P.S.I.			

PRESSURE BREAKDOWN

Point ins.	First Flow Pressure Breakdown:	Initial Shut-In Breakdown:	Second Flow Pressure Breakdown:	Final Shut-In Breakdown:	
0	<u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<u>19</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
0	<u>56</u>	0	<u>42</u>	0	<u>51</u>
3	<u>46</u>	3	<u>171</u>	3	<u>213</u>
6	<u>42</u>	6	<u>430</u>	6	<u>470</u>
9	<u>42</u>	9	<u>656</u>	9	<u>652</u>
12	<u>42</u>	12	<u>812</u>	12	<u>791</u>
15	<u>42</u>	15	<u>918</u>	15	<u>893</u>
18	<u>42</u>	18	<u>996</u>	18	<u>971</u>
21	<u>42</u>	21	<u>1056</u>	21	<u>1025</u>
24	<u>42</u>	24	<u>1111</u>	24	<u>1071</u>
27	<u>42</u>	27	<u>1154</u>	27	<u>1107</u>
30		30	<u>1190</u>	30	<u>1138</u>
33		33	<u>1218</u>	33	<u>1163</u>
36		36	<u>1245</u>	36	<u>1186</u>
39		39	<u>1270</u>	39	<u>1209</u>
42		42	<u>1288</u>	42	<u>1228</u>
45		45	<u>1304</u>	45	<u>1246</u>
48		48	<u>1319</u>	48	<u>1260</u>
51		51	<u>1330</u>	51	<u>1274</u>
54		54	<u>1344</u>	54	<u>1288</u>
57		57	<u>1352</u>	57	<u>1299</u>
60				60	<u>1305</u>



Home Office: Wichita, Kansas 67201  
P. O. Box 1599 (316) 838-0601

Company Denver Energy Investments Lease & Well No. Goyer #1  
Elevation 1214 Kelly Bush Formation Simpson Effective Pay - Ft. Ticket No. 22666  
Date 12-14-77 Sec. 25 Twp. 30S Range 1E County Sumner State Kansas

Test Approved by Preston Payne Western Representative Norman Allen

Formation Test No. 1 O.K.  Misrun  Interval Tested From 3632' to 3684' Total Depth 3684'

Size Main Hole 7-7/8 Rat Hole 6-1/8 Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No

Top Packer Depth 3627 Ft. Size 6-3/4 OD Bottom Packer Depth 3632 Ft. Size 6-3/4 OD

Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth - Ft. Size -

Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 52 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3677 Ft. Clock No. 8474 Depth 3680 Ft. Clock No. 6896

Top Make Kuster Cap. 4200 No. 1558 ~~Inside~~ Outside Bottom Make Kuster Cap. 4200 No. 1559 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside

Time Set Packer 6:28 P M

Tool Open I.F.P. From 6:30 M. to 7:15 M. - Hr. 45 Min. From (B) 56 P.S.I. To (C) 42 P.S.I.

Tool Closed I.C.I.P. From 7:15 M. to 8:15 M. - Hr. 60 Min (D) 1352 P.S.I.

Tool Open F.F.P. From 8:15 M. to 8:45 M. - Hr. 30 Min. From (E) 68 P.S.I. To (F) 51 P.S.I.

Tool Closed F.C.I.P. From 8:45 M. to 9:45 M. - Hr. 60 Min. (G) 1305 P.S.I.

Initial Hydrostatic Pressure (A) 1793 P.S.I. Final Hydrostatic Pressure (H) 1793 P.S.I. Maximum Temp. 118°

### INFORMATION

BLOW Weak to very weak blow for 45 minutes.

Did Well Flow - Yes  No  Recovery Total Ft. 45' Drilling mud - few specks of oil in tool.

Reversed Out - Yes  No  Mud Type Chem Viscosity 46 Weight 9.3 Water Loss 14.4 cc. Chlorides 7000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR White & Ellis Drlg. Co. Length Drill Pipe? 3282 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 330 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4H-90 In. Length D.S.T. Tool 72 Ft.

Remarks:

6-1/8 core hole 3639' to 3684'

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 12-14-77 Test Ticket No. 22666  
 Recorder No. 1558 Capacity 4200 Location 3677 Ft.  
 Clock No. 8474 Elevation 1214 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1793</u> P.S.I.	Open Tool	<u>6:28</u> M	
B First Initial Flow Pressure	<u>56</u> P.S.I.	First Flow Pressure	<u>45</u> Mins	<u>45</u> Mins.
C First Final Flow Pressure	<u>42</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>1352</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>68</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins	<u>60</u> Mins.
F Second Final Flow Pressure	<u>51</u> P.S.I.			
G Final Closed-in Pressure	<u>1305</u> P.S.I.			
H Final Hydrostatic Mud	<u>1793</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>9</u> mins. and a final inc. of <u>0</u> Min.		of <u>19</u> mins. and a final inc. of <u>0</u> Min.		of <u>6</u> mins. and a final inc. of <u>0</u> Min.		of <u>20</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>	<u>56</u>	<u>0</u>	<u>42</u>	<u>0</u>	<u>68</u>	<u>0</u>	<u>51</u>	
P 2 <u>5</u>	<u>46</u>	<u>3</u>	<u>171</u>	<u>5</u>	<u>54</u>	<u>3</u>	<u>213</u>	
P 3 <u>10</u>	<u>42</u>	<u>6</u>	<u>430</u>	<u>10</u>	<u>51</u>	<u>6</u>	<u>470</u>	
P 4 <u>15</u>	<u>42</u>	<u>9</u>	<u>656</u>	<u>15</u>	<u>51</u>	<u>9</u>	<u>652</u>	
P 5 <u>20</u>	<u>42</u>	<u>12</u>	<u>812</u>	<u>20</u>	<u>51</u>	<u>12</u>	<u>791</u>	
P 6 <u>25</u>	<u>42</u>	<u>15</u>	<u>918</u>	<u>25</u>	<u>51</u>	<u>15</u>	<u>893</u>	
P 7 <u>30</u>	<u>42</u>	<u>18</u>	<u>996</u>	<u>30</u>	<u>51</u>	<u>18</u>	<u>971</u>	
P 8 <u>35</u>	<u>42</u>	<u>21</u>	<u>1056</u>			<u>21</u>	<u>1025</u>	
P 9 <u>40</u>	<u>42</u>	<u>24</u>	<u>1111</u>			<u>24</u>	<u>1071</u>	
P10 <u>45</u>	<u>42</u>	<u>27</u>	<u>1154</u>			<u>27</u>	<u>1107</u>	
P11		<u>30</u>	<u>1190</u>			<u>30</u>	<u>1138</u>	
P12		<u>33</u>	<u>1218</u>			<u>33</u>	<u>1163</u>	
P13		<u>36</u>	<u>1245</u>			<u>36</u>	<u>1186</u>	
P14		<u>39</u>	<u>1270</u>			<u>39</u>	<u>1209</u>	
P15		<u>42</u>	<u>1288</u>			<u>42</u>	<u>1228</u>	
P16		<u>45</u>	<u>1304</u>			<u>45</u>	<u>1246</u>	
P17		<u>48</u>	<u>1319</u>			<u>48</u>	<u>1260</u>	
P18		<u>51</u>	<u>1330</u>			<u>51</u>	<u>1274</u>	
P19		<u>54</u>	<u>1344</u>			<u>54</u>	<u>1288</u>	
P20		<u>57</u>	<u>1352</u>			<u>57</u>	<u>1299</u>	
						<u>60</u>	<u>1305</u>	



1966

1

2

3

4

5

6

7