



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 4120

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 1291 Kb Formation KC. Eff. Pay Ft.

District Augusta Date 6-23-84 Customer Order No.

COMPANY NAME Leedessa Corp.

ADDRESS 1125 17th St Suite 2220 Denver Co 80202

LEASE AND WELL NO. Well #1 COUNTY Cowley STATE KS Sec. 8 Twp. 30S Rge. 5E

Mail Invoice To Same #1 "A" Felker Co. Name Address No. Copies Requested 1

Mail Charts To See att sheet Address No. Copies Requested 23

Formation Test No. 1 Interval Tested From 2226 ft. to 2235 ft. Total Depth 2900 ft.

Packer Depth 2226 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 2235 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2227 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 2240 ft. Recorder Number 3474 Cap. 3000

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor WTE #7 Drill Collar Length 300 I. D. 2.25 in.

Mud Type Chem Viscosity 51 Weight Pipe Length I. D. in.

Weight 9.6 Water Loss 1200 cc. Drill Pipe Length 2576 1911 I. D. 3.8 in.

Chlorides 1900 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in.

Jars: Make NO Serial Number Anchor Length 9 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 flow decreasing died 15 min first flow, No blow second flow flushed tool 30 min "Hee. Request" surge no blow

Recovered 20 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks:

Time On Location 8:00 A.M. Time Pick Up Tool 9:00 A.M. Time Off Location A.M.

Time Set Packer(s) 10:10 A.M. Time Started Off Bottom P.M. Maximum Temperature 104°

Initial Hydrostatic Pressure (A) 1109 P.S.I.

Initial Flow Period Minutes 30 (B) 63 P.S.I. to (C) 42 P.S.I.

Initial Closed In Period Minutes 60 (D) 52 P.S.I.

Final Flow Period Minutes 35 (E) 52 P.S.I. to (F) 73 P.S.I.

Final Closed In Period Minutes 60 (G) X P.S.I.

Final Hydrostatic Pressure (H) 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 Ed Schutte
Signature of Customer or his authorized representative

Western Representative Kenny Kirkendall 1127

FIELD INVOICE

Open Hole Test \$
Misrun \$ 400
Saddle Test \$ 300
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$ 90
Insurance \$
Telecopier \$
TOTAL \$

WESTERN TESTING CO., INC.

Pressure Data

Date 6-23 Test Ticket No. 4120
 Recorder No. 2605 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1112</u> P.S.I.		
B First Initial Flow Pressure	<u>43</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>43</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>59</u> P.S.I.	<u>35</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>59</u> P.S.I.	<u>60</u> Mins.	<u>—</u> Mins.
F Second Final Flow Pressure	<u>78</u> P.S.I.		
G Final Closed-in Pressure	<u>—</u> P.S.I.		
H Final Hydrostatic Mud	<u>1075</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>43</u>	0	<u>43</u>	0	<u>59</u>	0	
P 2 5		3		5	<u>64</u>	3	
P 3 10		6		10	<u>68</u>	6	
P 4 15		9		15	<u>72</u>	9	
P 5 20		12		20	<u>74</u>	12	
P 6 25		15	<u>43</u>	25	<u>76</u>	15	
P 7 30	<u>43</u>	18		30	<u>78</u>	18	
P 8 35		21		35		21	
P 9 40		24		40		24	
P 10 45		27		45		27	
P 11 50		30	<u>43</u>	50		30	
P 12 55		33	<u>44</u>	55		33	
P 13 60		36	<u>45</u>	60		36	
P 14		39	<u>46</u>	65		39	
P 15		42	<u>48</u>	70		42	
P 16		45	<u>50</u>	75		45	
P 17		48	<u>52</u>	80		48	
P 18		51	<u>54</u>	85		51	
P 19		54	<u>56</u>	90		54	
P 20		57	<u>58</u>			57	
		60	<u>59</u>			60	

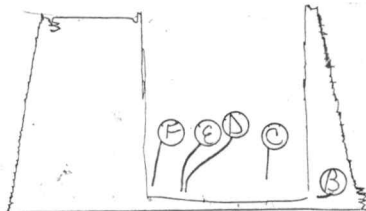
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(H)

(A)



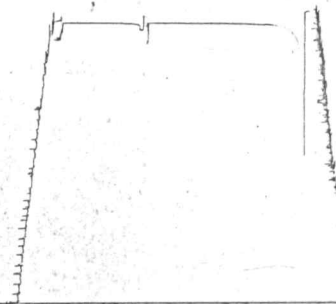
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Bottom

23



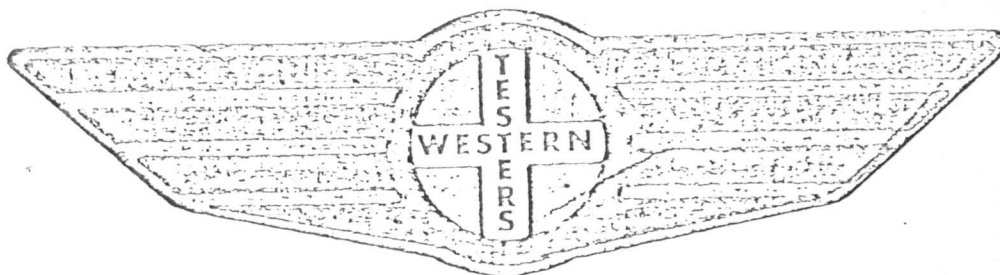
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

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GEODESSA CORPORATION

Lease and Well No.

#1 "A" FELKER

Sec.

8

Twp. 30S

Rge.

5E

Test No. 1

Date 6/23/87

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/23/84

CUSTOMER: GEODESSA CORPORATION

WELL: 1

TEST: 1

ELEVATION (KB): 1291

FORMATION: KANSAS CITY

SECTION: 8

TOWNSHIP: 30S

RANGE: 5E

COUNTY: COWLEY

STATE: KANSAS

GAUGE SN #2605

RANGE: 4150

CLOCK: 12

TICKET #4120

LEASE: "A" FELKER

GEOLOGIST: SCHUTTE

INTERVAL TEST FROM: 2226 FT TO: 2235 FT TOTAL DEPTH: 2900 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2226 FT SIZE: 6 3/4 IN PAKER DEPTH: 2235 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WHITE & ELLIS

MUD TYPE: CHEMICAL

VISCOSITY: 51

WEIGHT: 9.6

WATER LOSS (CC): 12.0

CHLORIDES (P.P.M.): 1900

JARS - MAKE:

SERIAL NUMBER:

DID WELL FLOW? NO

REVERSED OUT? NO

DRILL COLLAR LENGTH: 300

FT I.D.: 2.25 IN

WEIGHT PIPE LENGTH:

FT I.D.: IN

DRILL PIPE LENGTH: 1911

FT I.D.: 3.8 IN

TEST TOOL LENGTH: 15

FT TOOL SIZE: 5 1/2 O.D. IN

ANCHOR LENGTH: 9

FT SIZE: 5 1/2 O.D. IN

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: INITIAL FLOW PERIOD: FAIR BLOW DECREASING;
DEAD IN 15 MINUTES. FINAL FLOW PERIOD: NO BLOW;
FLUSHED TOOL: SURGE: NO BLOW

RECOVERED: 20	FT	OF: MUD
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 10:10

TIME STARTED OFF BOTTOM:

WELL TEMPERATURE: 104 °F

INITIAL HYDROSTATIC PRESSURE:

(A) 1112 PSI

INITIAL FLOW PERIOD

MIN: 30

(B) 43

PSI TO (C) 43 PSI

INITIAL CLOSED IN PERIOD

MIN: 60

(D) 59

PSI

FINAL FLOW PERIOD

MIN: 30

(E) 59

PSI TO (F) 78 PSI

FINAL CLOSED IN PERIOD

MIN: 0

(G) 0

PSI

FINAL HYDROSTATIC PRESSURE

(H) 1075

PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 4121

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 1291 KB Formation KC Eff. Pay _____ Ft.

COMPANY NAME GDSO District Augusta Date 6-24-83 Customer Order No. _____
Needless Corp

ADDRESS 1125 17th St Suite 2220 Denver

LEASE AND WELL NO. Felker #1 COUNTY Cowley STATE Ks Sec. 8 Twp. 30S Rge. 5E

Mail Invoice To Same #1 "A Felker" No. Copies Requested 1

Co. Name _____ Address _____ No. Copies Requested 523

Mail Charts To Same Address _____

Formation Test No. 2 Interval Tested From 2224 ft. to 2250 ft. Total Depth 2900 ft.

Packer Depth 2224 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 2250 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2228 ft. Recorder Number 2605 Cap. 9150

Bottom Recorder Depth (Outside) 2234 ft. Recorder Number _____ Cap. _____

Below Saddle Recorder Depth 2260 ft. Recorder Number 3474 Cap. 3000

Drilling Contractor WTE #7 Drill Collar Length 300 I. D. 2.25 in.

Mud Type Chemo Viscosity 51 Weight Pipe Length _____ I. D. _____ in.

Weight 9.6 Water Loss 12.0 cc. Drill Pipe Length 1909 I. D. 3.8 in.

Chlorides 1900 P.P.M. Test Tool Length 15 ft. Tool Size 5/16 in.

Jars: Make NU Serial Number _____ Anchor Length 26 ft. Size 5/16 in.

Did Well Flow? NU Reversed Out NU 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 did 5 min

Recovered 3 ft. of mud

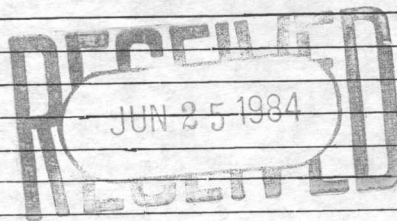
Recovered _____ ft. of

Recovered _____ ft. of

Recovered _____ ft. of

Recovered _____ ft. of

Chlorides _____ P.P.M. Sample Jars used _____ Remarks: _____



Time On Location _____ A.M. Time Pick Up Tool _____ A.M. Time Off Location _____ A.M.
P.M. P.M. P.M.

Time Set Packer(s) 6:30 A.M. Time Started Off Bottom 9:00 A.M. Maximum Temperature 104° P.M.

Initial Hydrostatic Pressure _____ (A) 1068 P.S.I.

Initial Flow Period _____ Minutes 60 (B) 52 P.S.I. to (C) 31 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) trapped P.S.I.

Final Flow Period _____ Minutes 30 (E) 31 P.S.I. to (F) 31 P.S.I.

Final Closed In Period _____ Minutes 30 (G) 42 P.S.I.

Final Hydrostatic Pressure _____ (H) 1068 P.S.I.

COMPANY TERMS

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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 Ed Schutte
Signature of Customer or his authorized representative

Western Representative Kenny Kurbadane

FIELD INVOICE

Open Hole Test \$ 550
Misrun \$ _____
Saddle Test \$ 300
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ 90
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ _____

WESTERN TESTING CO., INC.

Pressure Data

Date 6-24 Test Ticket No. 4121
 Recorder No. 2605 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1070</u> P.S.I.		
B First Initial Flow Pressure	<u>24</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>24</u> P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>958</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>30</u> P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>30</u> P.S.I.		
G Final Closed-in Pressure	<u>38</u> P.S.I.		
H Final Hydrostatic Mud	<u>1023</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 13 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 12 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

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

Final Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

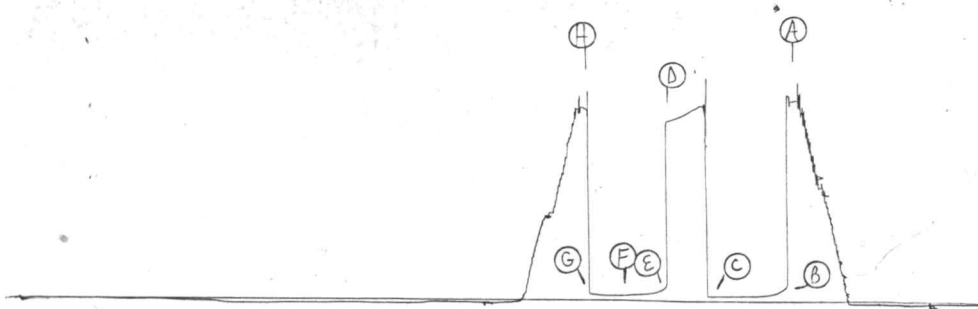
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>24</u>	0	<u>24</u>	0	<u>30</u>	0	<u>30</u>
P 2 5		3	<u>1042</u>	5		3	
P 3 10		6	<u>1042</u>	10		6	
P 4 15		9	<u>1039</u>	15		9	
P 5 20		12	<u>1028</u>	20		12	
P 6 25		15	<u>1017</u>	25		15	<u>30</u>
P 7 30		18	<u>1000</u>	30	<u>30</u>	18	<u>32</u>
P 8 35		21	<u>990</u>	35		21	<u>34</u>
P 9 40		24	<u>980</u>	40		24	<u>36</u>
P10 45		27	<u>973</u>	45		27	<u>38</u>
P11 50		30	<u>966</u>	50		30	
P12 55		33	<u>958</u>	55		33	
P13 60	<u>24</u>	36		60		36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

TKT # 4121

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DST # 2

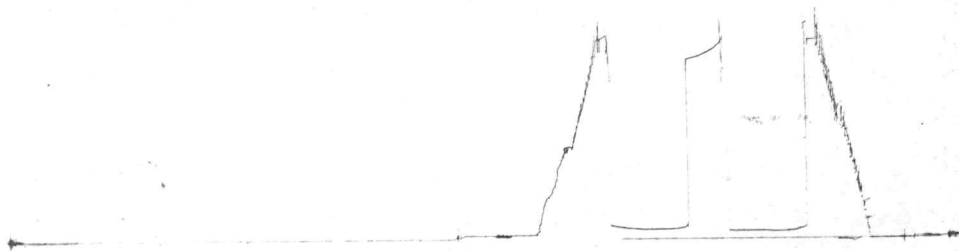
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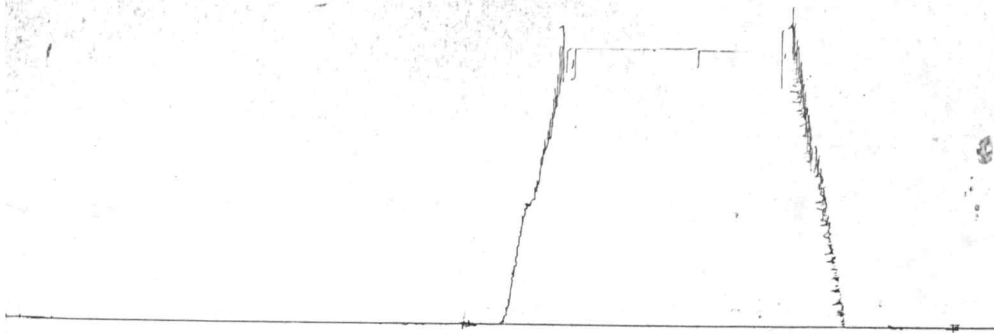
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TKT # 4121 DST # 2 23

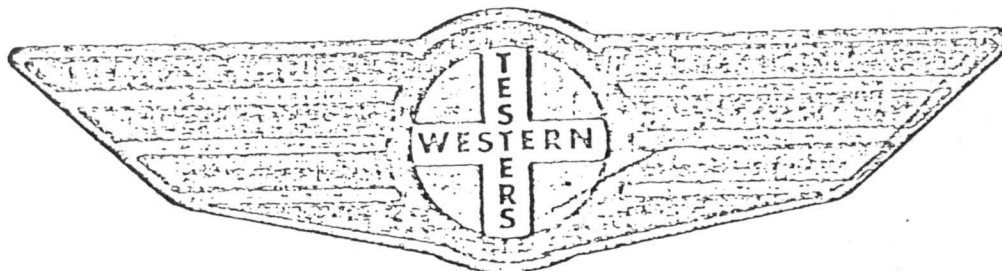
Below Straddle



FORMATION

TEST

REPORT



Home Office:

P.O. Box 1599

Wichita, Kansas 67201

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/24/84
CUSTOMER: GEODESSA CORPORATION
WELL: #1 TEST: 2
ELEVATION (KB): 1291 FORMATION: KC
SECTION: 8 TOWNSHIP: 30S
RANGE: 5E COUNTY: COWLEY STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

TICKET #4121
LEASE: FELKER "A"
GEOLOGIST: SCHUTTE

INTERVAL TEST FROM: 2224 FT TO: 2250 FT TOTAL DEPTH: 2900 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2224 FT SIZE: 6 3/4 IN Packer DEPTH: 2250 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WHITE & ELLIS
MUD TYPE: CHEM VISCOSITY: 51
WEIGHT: 9.6 WATER LOSS (CC): 12.0
CHLORIDES (P.P.M.): 1900

JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH: 300 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1909 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 15 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 26 FT SIZE: 5 1/2 O.D. IN
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 DEAD IN 5 MINUTES.

RECOVERED: 3 FT OF: MUD.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: PRESSURES QUESTIONABLE ON THE INITIAL SHUT-IN;
DUE TO TOOL BEING PICKED UP TOO HIGH.
HYDROSTATIC TRAP.

TIME SET PACKER(S): 6:30 P.M.
WELL TEMPERATURE: 104 °F

TIME STARTED OFF BOTTOM: 9:00 P.M.

INITIAL HYDROSTATIC PRESSURE:	(A) 1070	PSI
INITIAL FLOW PERIOD MIN: 60	(B) 24	PSI TO (C) 24 PSI
INITIAL CLOSED IN PERIOD MIN: 33	(D) 958	PSI
FINAL FLOW PERIOD MIN: 30	(E) 30	PSI TO (F) 30 PSI
FINAL CLOSED IN PERIOD MIN: 27	(G) 38	PSI
FINAL HYDROSTATIC PRESSURE	(H) 1023	PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 6/24/84
CUSTOMER: GEODESSA CORPORATION
WELL: #1 TEST: 2
ELEVATION (KB): 1291 FORMATION: KC
SECTION: 8 TOWNSHIP: 30S
RANGE: 5E COUNTY: COWLEY STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 1070 PSI
(B) FIRST INITIAL FLOW PRESSURE: 24 PSI
(C) FIRST FINAL FLOW PRESSURE: 24 PSI
(D) INITIAL CLOSED-IN PRESSURE: 958 PSI
(E) SECOND INITIAL FLOW PRESSURE: 30 PSI
(F) SECOND FINAL FLOW PRESSURE: 30 PSI
(G) FINAL CLOSED-IN PRESSURE: 38 PSI
(H) FINAL HYDROSTATIC PRESSURE: 1023 PSI
WELL TEMPERATURE: 104 'F
OPEN TOOL: 6:30 P.M.

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	60 MIN	60 MIN
INITIAL CLOSED-IN PRESSURE:	30 MIN	33 MIN
SECOND FLOW PRESSURE:	30 MIN	30 MIN
FINAL CLOSED-IN PRESSURE:	30 MIN	27 MIN

PRESSURE BREAKDOWN								
PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	24	0	24	0	30	0	30
2	5	24	3	1042	5	30	3	30
3	10	24	6	1042	10	30	6	30
4	15	24	9	1039	15	30	9	30
5	20	24	12	1028	20	30	12	30
6	25	24	15	1017	25	30	15	30
7	30	24	18	1000	30	30	18	32
8	35	24	21	990			21	34
9	40	24	24	980			24	36
10	45	24	27	973			27	38
11	50	24	30	966				
12	55	24	33	958				
13	60	24						
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