

# Marc Downing

Consulting Petroleum Geologist

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## GEOLOGIC REPORT LOG

COMPANY Downing-Nelson Oil Co., Inc

WELL Middleton-Salm # 1-8

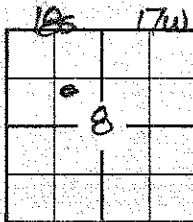
FIELD Wildcat

LOCATION 1570' FAL - 1540' FWL

SEC. 8 TWP. 18s RGE. 17w

COUNTY Rush

STATE Kansas



PRODUCTION Dry

ELEVATION KB 2083

DF

GL 2075

Drilling Measured From: 2083 KB

Samples Saved From 3300 To: TD

Drilling Time From 2850 To: TD

Samples Examined From: 3300 To: TD

Geological Supervision From 2850 To Total Depth

Wellsite Geologist Marc Downing

Electrical Surveys Nabors

CNLC/GE - Dual Induction

Sonic - Microlog

OPERATOR DNCCI

CONTRACTOR DISCOVER Drilling #4

COMM: \_\_\_\_\_ COMP: \_\_\_\_\_

### CASING RECORD

SURF: 10-31-12 PROD: 11-05-12

TOTAL DEPTH DRILLERS: 3849

TOTAL DEPTH LOG: 3852

### FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
<u>Anhydrite</u>	<u>1192</u>	<u>1197</u>	<u>+886</u>	
<u>BASE</u>	<u>1227</u>	<u>1230</u>	<u>+883</u>	
<u>Heebner</u>	<u>3578</u>	<u>3380</u>	<u>-1297</u>	
<u>Toronto</u>	<u>3390</u>	<u>3398</u>	<u>-1315</u>	
<u>Lansing</u>	<u>3432</u>	<u>3434</u>	<u>-1351</u>	
<u>BKC</u>	<u>3684</u>	<u>3680</u>	<u>-1577</u>	
<u>Reagan sd</u>	<u>3778</u>	<u>3782</u>	<u>-1699</u>	
<u>Brant Wash</u>	<u>3802</u>	<u>3804</u>	<u>-1721</u>	

REFERENCE WELL FOR STRUCTURE \_\_\_\_\_

### DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	IHP-FHP	RECOVERY

REMARKS AND RECOMMENDATIONS \_\_\_\_\_

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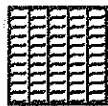
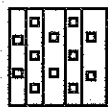


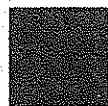
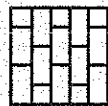
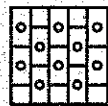

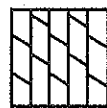
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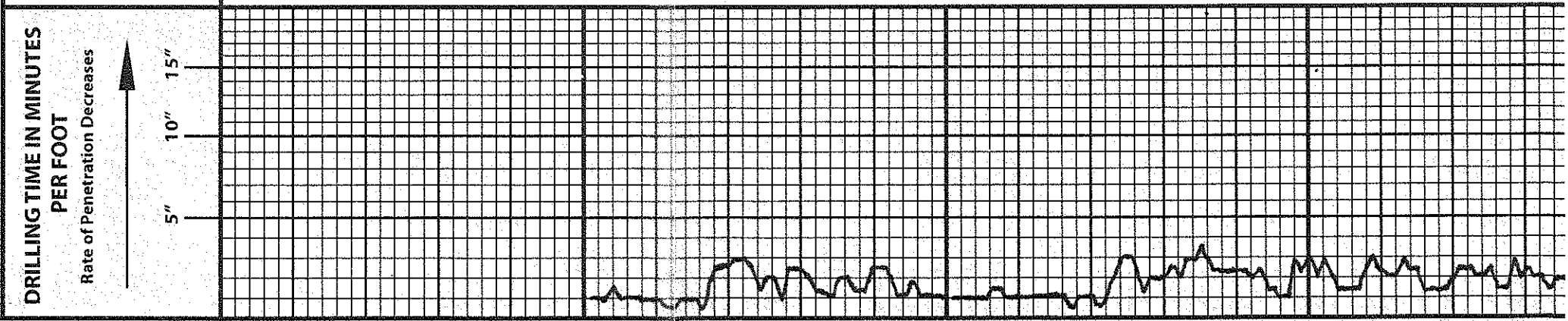

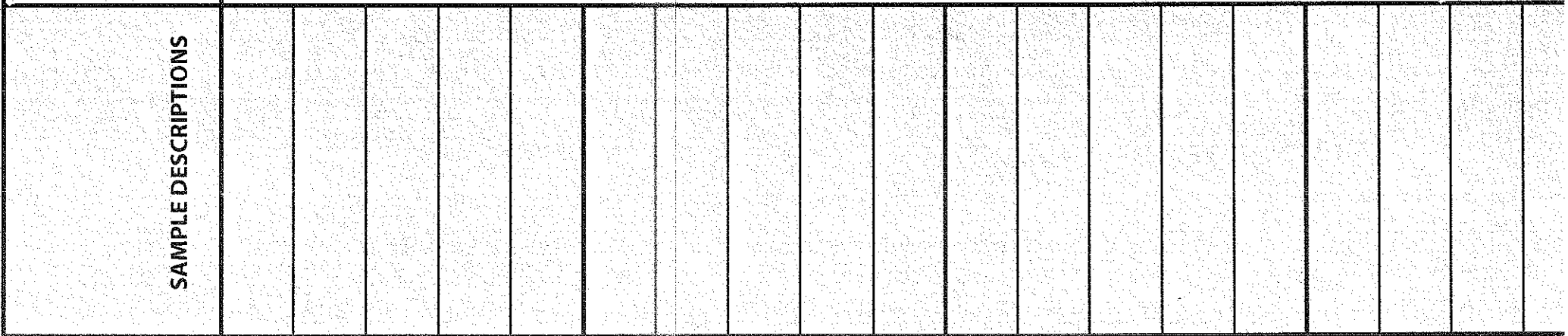
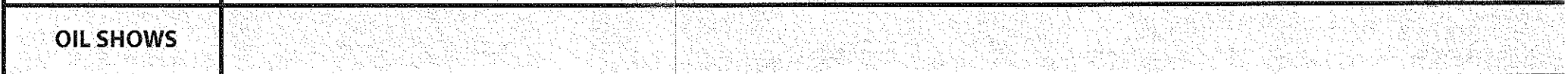
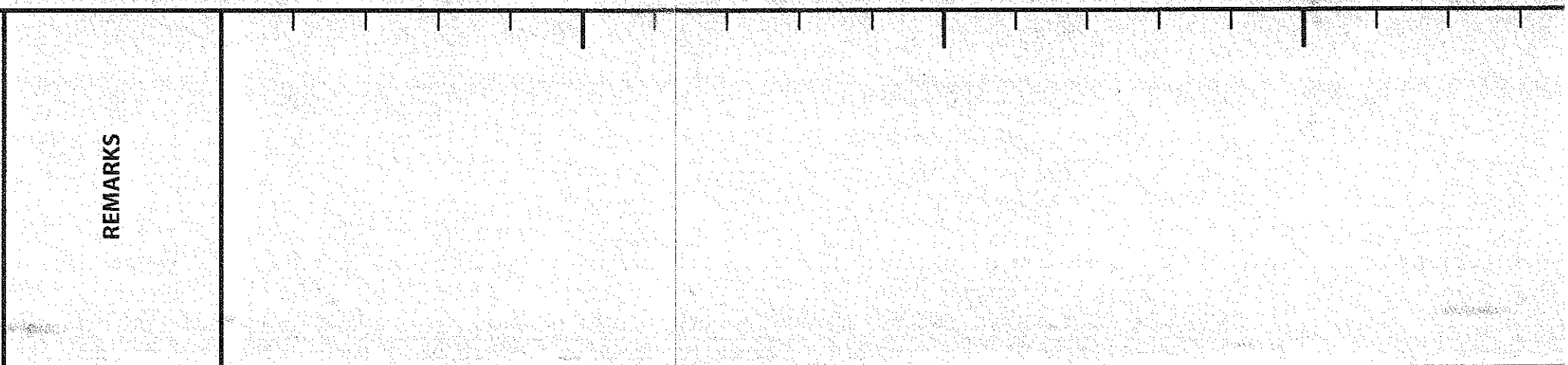
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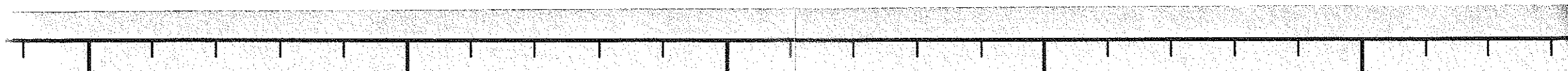
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# LEGEND

-  Anhydrite
-  Salt
-  Sandstone
-  Shale
-  Carb sh
-  Limestone
-  Ool. Lime
-  Chert
-  Dolomite

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases ↑	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">5"</div> <div style="margin-right: 10px;">10"</div> <div>15"</div> </div> 	<p style="font-size: 2em; margin: 0;">2950</p> <p style="font-size: 2em; margin: 0;">50</p>				



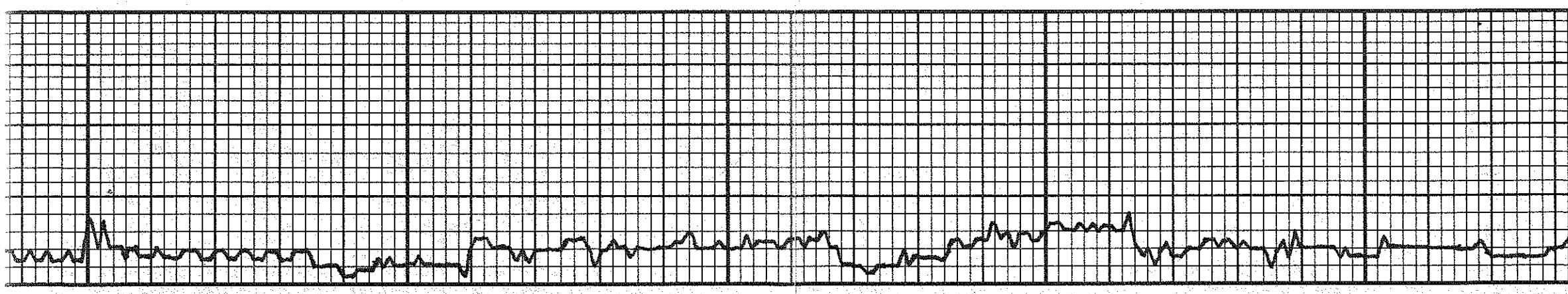
3000

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3200



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3300

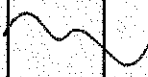
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3400

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LS: Tan Lt. Br. Cn

W V good ooc



LS: Tan Br f. V fm

V DSE w little interband

No show ooc

SN: Black - can

LS: Wht f. m - V fm V DSE

SN: gmt - Brown

LS: Wht f. subm f. ooc f. ooc

f. ooc all NS

SN: gmt - Brown - green

LS: Cn f. subm m. gd interband

No show

LS: Wht - f. V fm o. a. V DSE

SN: Brown

LS: Wht f. subm m. gd interband

ooc f. - totally barren + W

breeding total ooc - DSE

SN: gmt

LS: Wht Lt Tan sooth ooc

HEBNER

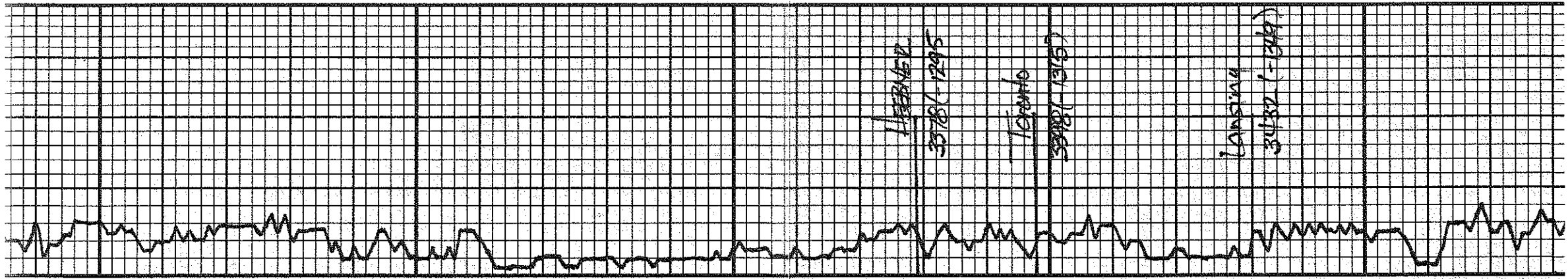
25787-12015

Teramoto

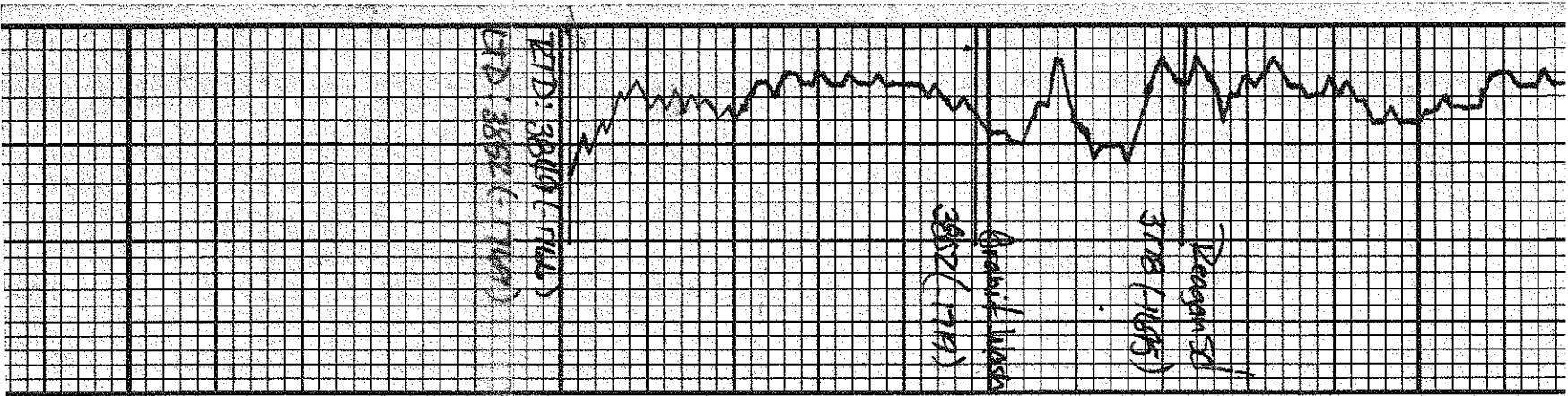
25987-12015

LANSING

30432 (-12015)







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3808

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1	Sh. Dol
2	ls: unit fr. in G. and Tan
3	Zed low of all N.S. south
4	see K. 55 Lenses throughout.
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ls: unit fr. in G. and Tan  
Zed low of all N.S. south  
see K. 55 Lenses throughout.

ess: dr. res with red clays  
w/ lite. str. in v. good (atank  
No. 100. - becoming narrow  
w/ depth - No. show -  
lots free sd. qns.

pyritic mmps in lds  
fiddler & Piddler  
Dunghill v. weathered

Ma. Brown