

TOPS-2"
Schlumberger

BOREHOLE COMPENSATED SONIC LOG

COUNTY <u>LEA</u> FIELD or LOCATION <u>WILDCAT</u> WELL <u>MCELVAIN FEDERAL #1</u> COMPANY <u>HILLIARD OIL & GAS</u>	COMPANY <u>HILLIARD OIL & GAS, INC.</u> <i>Q 5422</i>																																																																																																	
	WELL <u>MCELVAIN FEDERAL #1</u> <i>Ex 4</i>																																																																																																	
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LOCATION: <u>1980' FSL & 1980' FEL</u> Sec. <u>30</u> Twp. <u>18-S</u> Rge. <u>34-E</u>		Other Services: <u>CNL-FDC,</u> <u>DLL, MLL</u>																																																																																																
Permanent Datum: <u>G.L.</u> ; Elev.: <u>3903</u> Log Measured From <u>K.B.</u> , <u>18</u> Ft. Above Perm. Datum Drilling Measured From <u>K.B.</u>		Elev.: K.B. <u>3921</u> D.F. _____ G.L. <u>3903</u>																																																																																																
<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Date</td><td colspan="3"><u>8-22-74</u></td></tr> <tr><td>Run No.</td><td colspan="3"><u>ONE</u></td></tr> <tr><td>Depth-Driller</td><td colspan="3"><u>14075</u></td></tr> <tr><td>Depth-Logger</td><td colspan="3"><u>14070</u></td></tr> <tr><td>Btm. Log Interval</td><td colspan="3"><u>14068</u></td></tr> <tr><td>Top Log Interval</td><td colspan="3"><u>0</u></td></tr> <tr><td>Casing-Driller</td><td colspan="3"><u>8 5/8@ 5120</u></td></tr> <tr><td>Casing-Logger</td><td colspan="3"><u>5116</u></td></tr> <tr><td>Bit Size</td><td colspan="3"><u>7 7/8</u></td></tr> <tr><td>Type Fluid in Hole</td><td colspan="3"><u>DEXTRID-DRISPA</u></td></tr> <tr> <td>Dens.</td> <td>Visc.</td> <td><u>10.3</u></td> <td><u>44</u></td> </tr> <tr> <td>pH</td> <td>Fluid Loss</td> <td><u>9.5</u></td> <td><u>2.0</u> ml</td> </tr> <tr><td>Source of Sample</td><td colspan="3"><u>PIT</u></td></tr> <tr> <td>R_m @ Meas. Temp.</td> <td><u>.056 @ 83</u> °F</td> <td>@ °F</td> <td>@ °F</td> </tr> <tr> <td>R_{mf} @ Meas. Temp.</td> <td><u>.051 @ 80</u> °F</td> <td>@ °F</td> <td>@ °F</td> </tr> <tr> <td>R_{mc} @ Meas. Temp.</td> <td><u>.084 @ 83</u> °F</td> <td>@ °F</td> <td>@ °F</td> </tr> <tr> <td>Source: R_{mf} R_{mc}</td> <td><u>M</u> <u>C</u></td> <td></td> <td></td> </tr> <tr> <td>R_m @ BHT</td> <td><u>.026 @ 180</u> °F</td> <td>@ °F</td> <td>@ °F</td> </tr> <tr> <td>Circulation Stopped</td> <td><u>8-22 1400</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td><u>8-22 1900</u></td> <td></td> <td></td> </tr> <tr> <td>Max. Rec. Temp.</td> <td><u>180</u> °F</td> <td>°F</td> <td>°F</td> </tr> <tr> <td>Equip. Location</td> <td><u>3721 HOBBS</u></td> <td></td> <td></td> </tr> <tr> <td>Recorded By</td> <td><u>KEMPER</u></td> <td></td> <td></td> </tr> <tr> <td>Witnessed By</td> <td><u>SCHULTZ</u></td> <td></td> <td></td> </tr> </table>			Date	<u>8-22-74</u>			Run No.	<u>ONE</u>			Depth-Driller	<u>14075</u>			Depth-Logger	<u>14070</u>			Btm. Log Interval	<u>14068</u>			Top Log Interval	<u>0</u>			Casing-Driller	<u>8 5/8@ 5120</u>			Casing-Logger	<u>5116</u>			Bit Size	<u>7 7/8</u>			Type Fluid in Hole	<u>DEXTRID-DRISPA</u>			Dens.	Visc.	<u>10.3</u>	<u>44</u>	pH	Fluid Loss	<u>9.5</u>	<u>2.0</u> ml	Source of Sample	<u>PIT</u>			R _m @ Meas. Temp.	<u>.056 @ 83</u> °F	@ °F	@ °F	R _{mf} @ Meas. Temp.	<u>.051 @ 80</u> °F	@ °F	@ °F	R _{mc} @ Meas. Temp.	<u>.084 @ 83</u> °F	@ °F	@ °F	Source: R _{mf} R _{mc}	<u>M</u> <u>C</u>			R _m @ BHT	<u>.026 @ 180</u> °F	@ °F	@ °F	Circulation Stopped	<u>8-22 1400</u>				<u>8-22 1900</u>			Max. Rec. Temp.	<u>180</u> °F	°F	°F	Equip. Location	<u>3721 HOBBS</u>			Recorded By	<u>KEMPER</u>			Witnessed By	<u>SCHULTZ</u>		
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BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
Hilliard
 CASE NO. 5422 EXHIBIT NO. 4

Schlumberger

MICROLATEROLOG-MICROLOG

COUNTY LEA
 FIELD or LOCATION WILDCAT
 WELL MCELVAIN FEDERAL #1
 COMPANY HILLIARD OIL & GAS

COMPANY HILLIARD OIL & GAS, INC.

WELL MCELVAIN FEDERAL #1

FIELD WILDCAT

COUNTY LEA STATE NEW MEXICO

Location: 1980' FSL & 1980' FEL

Sec. 30 Twp. 18-S Rge. 34-E

Other Services:

CNL-FDC,
BHC, DLL

Permanent Datum: G.L.; Elev.: 3903
 Log Measured From K.B., 18 Ft. Above Perm. Datum
 Drilling Measured From K.B.

Elev.: K.B. 3921
 D.F. 3903
 G.L. 3903

Date	8-23-74				
Run No.	ONE				
Depth-Driller	14075				
Depth-Logger (Schl.)	14065				
Btm. Log Interval	13710				
Top Log Interval	9400				
Casing-Driller	8 5/8@ 5120	@	@	@	
Casing-Logger					
Bit Size	7 7/8				
Type Fluid in Hole	DEXTRID-DR	SPAC			
Dens.	Visc.	10.3	44		
pH	Fluid Loss	9.5	2.0 ml	ml	ml
Source of Sample	PIT				
R _m @ Meas. Temp.	.056 @ 83 °F	@	°F	@	°F
R _{mf} @ Meas. Temp.	.051 @ 80 °F	@	°F	@	°F
R _{mc} @ Meas. Temp.	.084 @ 83 °F	@	°F	@	°F
Source: R _{mf} R _{mc}	M C				
R _m @ BHT	.026 @ 180 °F	@	°F	@	°F
TIME	Circulation Stopped	8-22	1400		
	Logger on Bottom	8-23	1430		
Max. Rec. Temp.	180 °F	°F	°F	°F	°F
Equip.	Location	3721	HOBBS		
Recorded By	KEMPER				
Witnessed By	SCHULTZ				

Schlumberger

DUAL LATEROLOG

COUNTY LEA
FIELD or
LOCATION WILDCAT
WELL MCELVAIN FEDERAL
#1
COMPANY HILLIARD OIL & GAS

COMPANY HILLIARD OIL & GAS, INC.

WELL MCELVAIN FEDERAL #1

FIELD WILDCAT

COUNTY LEA STATE NEW MEXICO

LOCATION:

1980' FSL & 1980' FEL

Sec. 30 Twp. 18-S Rge. 34-E

Other Services:

CNL-FDC,
BHC, MLL

Permanent Datum: G.L., Elev. 3903
Log Measured From K.B. 18 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 3921
D.F.
G.L. 3903

Date	8-23-74			
Run No.	ONE			
Depth—Driller	14075			
Depth—Logger	14070			
Btm. Log Interval	14055			
Top Log Interval	5116			
Casing—Driller	8 5/8 @ 5120	@	@	@
Casing—Logger	5116			
Bit Size	7 7/8			
Type Fluid in Hole	DEXTRID-DRISPA FULL			
Dens. Visc.	10.3 44			
pH Fluid Loss	9.5 2.0 ml	ml	ml	ml
Source of Sample	PIT			
R _m @ Meas. Temp.	.056 @ 83 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	.051 @ 80 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	.084 @ 83 °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M C			
R _m @ BHT	@ °F	@ °F	@ °F	@ °F
Time Since Circ.				
Max. Rec. Temp.	°F	°F	°F	°F
ip. Location	3721 HOBBS			
Recorded By	KEMPER			
Processed By	SCHULTZ			