

ENGR
Schlumberger

DUAL INDUCTION-LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY FIELD LOCATION WELL COMPANY	COMPANY <u>ATLANTIC RICHFIELD COMPANY</u> MARKED																																																																																																																																																																
	WELL <u>CHACON FEDERAL #8</u>																																																																																																																																																																
	FIELD <u>CHACON DAKOTA</u>																																																																																																																																																																
	COUNTY <u>RIO ARriba</u> STATE <u>NEW MEXICO</u>																																																																																																																																																																
LOCATION <u>1825 FNL</u> <u>1850 FEL</u>		Other Services: <u>FDC-CNL-GR</u>																																																																																																																																																															
API SERIAL NO.		SEC. <u>19</u>	TWP <u>24N</u>	RANGE <u>3W</u>																																																																																																																																																													
Permanent Datum: <u>GL</u> ; Elev.: <u>6907</u> Log Measured From <u>KB</u> ; <u>14</u> Ft. Above Perm. Datum Drilling Measured From <u>KB</u>																																																																																																																																																																	
Elev.: K.B. <u>6921</u> D.F. <u>6920</u> G.L. <u>6907</u>																																																																																																																																																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Date</td><td><u>10-13-78</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Run No.</td><td><u>ONE</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Depth-Driller</td><td><u>7560</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Depth-Logger</td><td><u>7562</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Btm. Log Interval</td><td><u>7553</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Top Log Interval</td><td><u>334</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Casing-Driller</td><td><u>8 5/8 @ 334</u></td><td><u>@</u></td><td><u>@</u></td><td><u>@</u></td><td><u>@</u></td></tr> <tr> <td>Casing-Logger</td><td><u>334</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Bit Size</td><td><u>7 7/8</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Type Fluid in Hole</td><td><u>FGM</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Dens.</td><td><u>8.9</u></td><td><u>120</u></td><td></td><td></td><td></td></tr> <tr> <td>pH</td><td><u>8.5</u></td><td><u>5.6 ml</u></td><td><u>ml</u></td><td><u>ml</u></td><td><u>ml</u></td></tr> <tr> <td>Source of Sample</td><td><u>FLOWLINE</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Rm @ Meas. Temp.</td><td><u>4.53 @ 73°F</u></td><td><u>@</u></td><td><u>°F</u></td><td><u>@</u></td><td><u>°F</u></td></tr> <tr> <td>Rmf @ Meas. Temp.</td><td><u>4.41 @ 73°F</u></td><td><u>@</u></td><td><u>°F</u></td><td><u>@</u></td><td><u>°F</u></td></tr> <tr> <td>Rmc @ Meas. Temp.</td><td><u>- @ - °F</u></td><td><u>@</u></td><td><u>°F</u></td><td><u>@</u></td><td><u>°F</u></td></tr> <tr> <td>Source: Rmf</td><td><u>MEAS</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Rmc</td><td><u>-</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Rm @ BHT</td><td><u>4.53 @ 149°F</u></td><td><u>@</u></td><td><u>°F</u></td><td><u>@</u></td><td><u>°F</u></td></tr> <tr> <td>Circulation Stopped</td><td><u>1715</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Logger on Bottom</td><td><u>2145</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Max. Rec. Temp.</td><td><u>149 °F</u></td><td><u>°F</u></td><td><u>°F</u></td><td><u>°F</u></td><td><u>°F</u></td></tr> <tr> <td>Equip.</td><td><u>7261 FARM</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Location</td><td><u>LEE</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Recorded By</td><td><u>LEE</u></td><td></td><td></td><td></td><td></td></tr> <tr> <td>Witnessed By</td><td><u>J. GOW</u></td><td></td><td></td><td></td><td></td></tr> </table>						Date	<u>10-13-78</u>					Run No.	<u>ONE</u>					Depth-Driller	<u>7560</u>					Depth-Logger	<u>7562</u>					Btm. Log Interval	<u>7553</u>					Top Log Interval	<u>334</u>					Casing-Driller	<u>8 5/8 @ 334</u>	<u>@</u>	<u>@</u>	<u>@</u>	<u>@</u>	Casing-Logger	<u>334</u>					Bit Size	<u>7 7/8</u>					Type Fluid in Hole	<u>FGM</u>					Dens.	<u>8.9</u>	<u>120</u>				pH	<u>8.5</u>	<u>5.6 ml</u>	<u>ml</u>	<u>ml</u>	<u>ml</u>	Source of Sample	<u>FLOWLINE</u>					Rm @ Meas. Temp.	<u>4.53 @ 73°F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>	Rmf @ Meas. Temp.	<u>4.41 @ 73°F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>	Rmc @ Meas. Temp.	<u>- @ - °F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>	Source: Rmf	<u>MEAS</u>					Rmc	<u>-</u>					Rm @ BHT	<u>4.53 @ 149°F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>	Circulation Stopped	<u>1715</u>					Logger on Bottom	<u>2145</u>					Max. Rec. Temp.	<u>149 °F</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>	Equip.	<u>7261 FARM</u>					Location	<u>LEE</u>					Recorded By	<u>LEE</u>					Witnessed By	<u>J. GOW</u>				
Date	<u>10-13-78</u>																																																																																																																																																																
Run No.	<u>ONE</u>																																																																																																																																																																
Depth-Driller	<u>7560</u>																																																																																																																																																																
Depth-Logger	<u>7562</u>																																																																																																																																																																
Btm. Log Interval	<u>7553</u>																																																																																																																																																																
Top Log Interval	<u>334</u>																																																																																																																																																																
Casing-Driller	<u>8 5/8 @ 334</u>	<u>@</u>	<u>@</u>	<u>@</u>	<u>@</u>																																																																																																																																																												
Casing-Logger	<u>334</u>																																																																																																																																																																
Bit Size	<u>7 7/8</u>																																																																																																																																																																
Type Fluid in Hole	<u>FGM</u>																																																																																																																																																																
Dens.	<u>8.9</u>	<u>120</u>																																																																																																																																																															
pH	<u>8.5</u>	<u>5.6 ml</u>	<u>ml</u>	<u>ml</u>	<u>ml</u>																																																																																																																																																												
Source of Sample	<u>FLOWLINE</u>																																																																																																																																																																
Rm @ Meas. Temp.	<u>4.53 @ 73°F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>																																																																																																																																																												
Rmf @ Meas. Temp.	<u>4.41 @ 73°F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>																																																																																																																																																												
Rmc @ Meas. Temp.	<u>- @ - °F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>																																																																																																																																																												
Source: Rmf	<u>MEAS</u>																																																																																																																																																																
Rmc	<u>-</u>																																																																																																																																																																
Rm @ BHT	<u>4.53 @ 149°F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>																																																																																																																																																												
Circulation Stopped	<u>1715</u>																																																																																																																																																																
Logger on Bottom	<u>2145</u>																																																																																																																																																																
Max. Rec. Temp.	<u>149 °F</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>																																																																																																																																																												
Equip.	<u>7261 FARM</u>																																																																																																																																																																
Location	<u>LEE</u>																																																																																																																																																																
Recorded By	<u>LEE</u>																																																																																																																																																																
Witnessed By	<u>J. GOW</u>																																																																																																																																																																

The well name, location and borehole reference data were furnished by the customer.

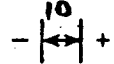
FOLD HERE

6200
6212
GALLUP

6300

6400

SPONTANEOUS-POTENTIAL



MILLIVOLTS

DEPTH

RESISTIVITY OHMS M²/M

LATEROLOG - 8

0.2 1.0 10 100 1000 2000

MEDIUM INDUCTION

0.2 1.0 10 100 1000 2000

DEEP INDUCTION

0.2 1.0 10 100 1000 2000

1-RESISTERS

Dakota
7184
"A"

7200

7300

7304
"B"

SPONTANEOUS-POTENTIAL

MILLIVOLTS

DEPTH

RESISTIVITY OHMS M²/M

LATEROLOG - 8

0.2 1.0 10 100 1000 2000

MEDIUM INDUCTION

0.2 1.0 10 100 1000 2000

DEEP INDUCTION

0.2 1.0 10 100 1000 2000