

**Western Atlas**  
**International**  
**Atlas Wireline**  
**Services**

PRODIP

FILE NO.

COMPANY OREGON NATURAL GAS CORPORATION  
 WELL IN 3313  
 2" = 100'

FIELD AUST  
 COUNTY COLUMBIANA STATE OREGON  
 LOCATION 1075 S. 1637 W. OF THE  
 1/4 SECTION 01;  
 100' PERIOD

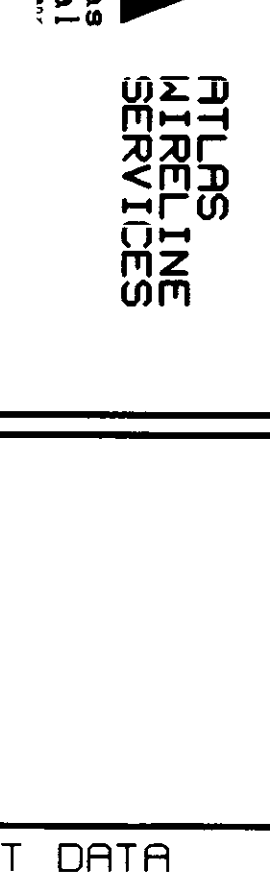
SEC 3 TWP 4N R9E 3W  
 Other Services  
 Log Measured from: 11.1 Ft. Above Permanent Datum (D) GL 1182.3'

Date 6-2-88  
 Depth—Dipper 1388.5  
 Depth—Logger 2772.0  
 Bottom Logged Interval 2772.0  
 Top Logged Interval 3161'  
 Casing—Dipper 133.8' @ 3/8"  
 Casing—Logger 338.5' @ 1/2"

Bit Size 1 1/2" DIAMETER  
 Density and Viscosity 91.8  
 pH and Fluid Loss 5.2 cc  
 Source of Sample FLOWLINE

Form @ Mass Temp 27.25 @ 62 °F  
 Form @ Mass Temp 27.106 @ 62 °F  
 Form @ Mass Temp 27.15 @ 62 °F  
 Source of Form and Time N 31 @ 105 °F  
 Form @ Baroc 27.33 @ 105 °F  
 Form @ Baroc 27.115 @ 105 °F  
 Max. Spec. Temp. 110  
 Equip. No. and Location 14416 S.N.C.  
 Recorded by H. WILCH  
 Witnessed by M.R. THOMAS

IN MAKING INTERPRETATIONS OF LOGS OUR  
 EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT  
 OF THEIR BEST JUDGMENT, BUT SINCE  
 OUR INTERPRETATIONS ARE OPINIONS BASED  
 ON INFORMATION FROM ELECTRIC LOGS OR OTHER  
 INFORMATION RECEIVED BY US, WE CANNOT  
 GUARANTEE THE ACCURACY OR COMPLETENESS  
 OF ANY INTERPRETATION. WE SHALL NOT BE  
 LIABLE OR RESPONSIBLE FOR ANY LOSS,  
 COST, DAMAGES, OR EXPENSES WHATSOEVER  
 INCURRED OR SUSTAINED BY THE CUSTOMER  
 RESULTING FROM ANY INTERPRETATION MADE  
 BY ANY OF OUR EMPLOYEES.

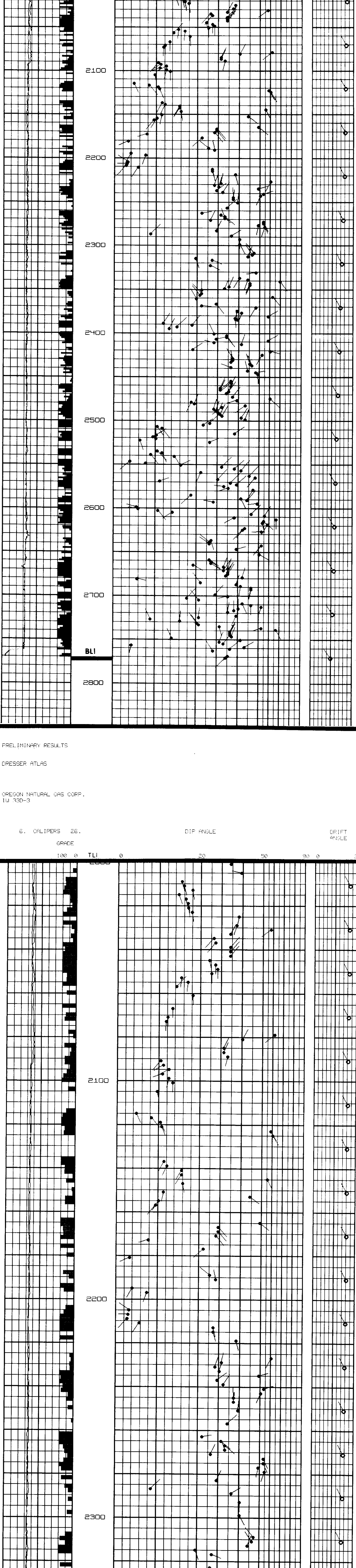


**WESTERN ATLAS**  
**INTERNATIONAL**  
**SERVICES**

REMARKS RUN ( 1 )  
 BHV COMPUTED FOR TOTAL HOLE VOLUME

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	DIFL			
1	1	GR			
1	1	CAL			
1	1	D.I.P	78187	1523	CENT

PRELIMINARY RESULTS  
 DRESSER ATLAS  
 OREGON NATURAL GAS CORP.  
 TU 330-3



PRELIMINARY RESULTS  
 DRESSER ATLAS  
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 TU 330-3

