

Cement Bond Log
VDL

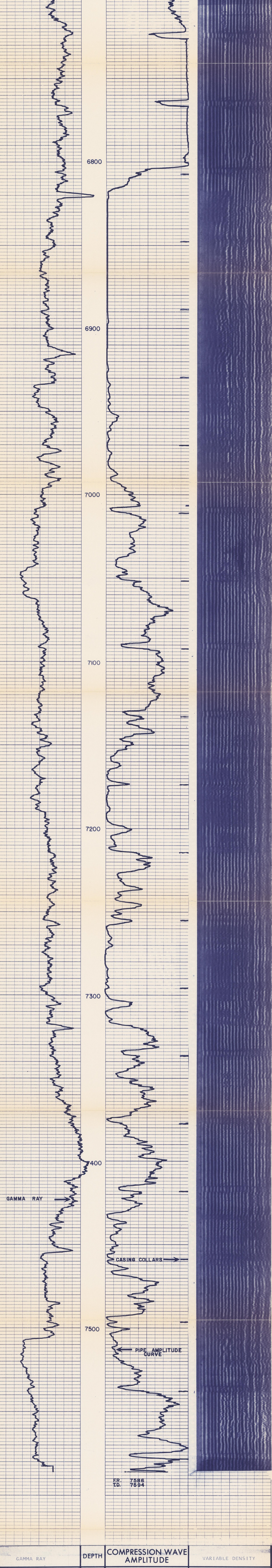
FILE NO. _____
COMPANY MACEY & MERRISON OIL, INC.
WELL QMALLS #1
FIELD WATTEBURG, N.J.

COUNTY WELD STATE COLORADO
LOCATION 990 FSL / 1650 PAL

SEC 28 TWP 3N RGE 68W
Permanent Datum GROUND LEVEL Elev. 4937
Log Measured from KELLY BUSHING, 9 ft Above Permanent Datum DL 4937
Drilling Measure from KELLY BUSHING

DATE ONE CSO RECORD Surface Production Production Line
Run No. ONE Size 4 1/2
Depth Driller 7594 Grade
Depth Logger 7594 Type Joint
Bottom Logged Int. 67560 Top
Top Logged Int. 67700 Bottom
Type Cement PRIMARY CEMENTING DATA
Type Cement
Density of Fluid
Fluid Level
Max. Temp. Dig. F
Tool Joint No. 3117
Stand Size 2 1/2
Logging Speed 5.0
R/A Log Type GAMMA, B, Water Loss
T.C. 3
Start String 210 Dig. Mud Wt.
Stop String 2011
Truck or Unit No. 1011
Location FOREST HILL
Opr. Rig Time P. LAST
Recorded by S. CHART
Witnessed by
Finished Bond Log
Pipe Not After Plugdown Yes No

REMARKS



| GAMMA RAY | DEPTH | COMPRESSION WAVE AMPLITUDE | VARIABLE DENSITY |
|-------------------------------|-------|---|--------------------|
| RADIATION INTENSITY INCREASES | | AMPLITUDE INCREASES PERCENT UNBONDED PIPE SIGNAL | |
| 0 API UNITS 200 | | 0% 50% 100% | 0 MICROSECOND 1000 |

| GAMMA RAY CALIBRATION BEFORE SURVEY | GAMMA RAY CALIBRATION AFTER SURVEY |
|-------------------------------------|------------------------------------|
| | |

| CEMENT BOND LOG CALIBRATION BEFORE SURVEY | CEMENT BOND LOG CALIBRATION AFTER SURVEY |
|---|--|
| | |

| API UNITS OF CALIBRATION | 250 |
|--------------------------|-----|
| CD DEFLECTION | 5.0 |
| TIME CONSTANT | 2.0 |
| ZERO SUPPRESSION | 0 |