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| CUSTOMER OREGON NATURAL GAS DEVELOPEMENT COPR | | WORK ORDER NO. 131782 | DATE 12-14-88 |
| LEASE/WELL NO. COLUMBIA COUNTY No. 6 REDRILL #2 | | CUSTOMER ORDER NO. | |
| FIELD | MIST - NAHALEM BASIN | COUNTY | COLUMBIA |
| | | STATE | OREGON |
| CASING O.D. | 4-1/2" | WEIGHT(S) | 10.5# |
| | | NOMINAL WALL THICKNESS | GRADE K-55 |
| TOTAL FOOTAGE INSPECTED | 2475' | FROM | SURFACE |
| | | TO | 2475' |
| | | | DEPTH |

| SUBSURFACE CASING DEFECT REPORT | | | | | |
|--|-------------|-------------|------------|-------------|-------------|
| LENGTH NO. | TYPE DEFECT | PENETRATION | LENGTH NO. | TYPE DEFECT | PENETRATION |
| INSIDE 7" SURFACE CASING | | | | | |
| 9 | OD IP | 21 - 40 | | | |
| OUTSIDE 7" SURFACE CASING | | | | | |
| 17 | OD IP | 21 - 40 | | | |
| 32 | OD IP | 21 - 40 | | | |
| 33 | OD IP | 21 - 40 | | | |
| 35 | OD IP | 21 - 40 | | | |
| 37 | OD IP | 21 - 40 | | | |
| 38 | OD IP | 21 - 40 | | | |
| 40 | OD IP | 21 - 40 | | | |
| 44 | OD IP | 21 - 40 | | | |
| 54 | OD IP | 61 - 80 | | | |
| 55 | OD GC | 41 - 60 | | | |
| 56 | OD GC | 21 - 40 | | | |
| 57 | OD IP | 21 - 40 | | | |
| 58 | OD IP | 21 - 40 | | | |
| 59 | OD IP | 41 - 60 | | | |

ABBREVIATIONS:

| | | |
|-------------------------|----------------------------|----------------------------------|
| O.D. - OUTSIDE DIAMETER | I.S. - INSIDE SURFACE PIPE | I.P. - ISOLATED PITTING |
| I.D. - INSIDE DIAMETER | T.L. - THROUGHOUT LENGTH | C.C. - CIRCUMFERENTIAL CORROSION |
| | | G.C. - GENERAL CORROSION |