

HISTORY OF OIL OR GAS WELL

(In compliance with rules and regulations pursuant to ORS 520)

OREGON NATURAL GAS DEVELOPMENT CORPORATION (Company or operator) OINGDC (Lease) IW 32D-10 (Well No.)  
Sec. 10, T. 6N, R. 5W W.B.M. Surveyed Coordinates: 2181.42' S AND 1744. 83' W FROM NE CORNER OF SEC. 10, T6N, R5W  
Wildcat: (or) Field Name: MIST UNDERGROUND STORAGE County: COLUMBIA  
Signature: *[Signature]*  
Date: MARCH 11, 1987 Position: FIELD OPERATIONS SUPERVISOR

Use this form in reporting the daily operations at the well. (Operator may use his own forms, but heading of this form must also be completed and submitted.) Please submit a complete history of the well. Include such information as bit sizes, mud weights, casing sizes and depths set, amount of cement used, drilling depths, fishing, logging, perforating, and plugging procedures, and anything else pertinent to the operation. Do not include lithology.

Date  
1-20-87 MIX MUD, CIRCULATE GAS OUT OF WELL. RIH TO 2395. CIRCULATE, POOH WITH TUBING, RUN CEMENT BOND LOG. RIH WITH TUBING. NIPPLE UP TREE, CIRCULATE.  
1-21-87 NIPPLE DOWN TREE. POOH WITH TUBING. WELD ON UNLANDING JOINT AND CUT CONDUCTOR. CUT CASING AND WELLHEAD OFF. WELD ON NEW WELLHEAD. ATTEMPT TO SET SLIPS. REMOVE CEMENT FROM AROUND 8 5/8" CASING. SET SLIPS.  
1-22-87 CUT OFF 8 5/8" CASING, NIPPLE UP TUBING HANGER AND TEST TO 1500 PSI. NIPPLE UP BOPE. STRAP DRILL PIPE AND RIH TO 2235'. SET CEMENT PLUG 2235-2160. PICK UP BRIDGE PLUG, RIH AND SET AT 2110'. TEST BOPE. RIG UP DRESSER ATLAS AND SHOOT 4 SQUEEZE HOLES AT 2035'-2036'.  
1-23-87 RIH WITH RTTS TOOL TO 1925' AND SQUEEZE IT WITH 75 SACKS CLASS G CEMENT MIXED WITH .75% HALAD 322. REVERSE OUT. WOC.  
1-24-87 TAG CEMENT AT 2031'. DRILL OUT CEMENT TO 2096'. RUN CEMENT BOND LOG. PERFORATE 4 HOLES AT 2084-85'. RIH WITH RTTS TOOL AND SET AT 2049'. SQUEEZE WITH 50 SACKS. REVERSE OUT. WOC.  
1-25-87 DRILL OUT CEMENT. RUN CEMENT BOND LOG. RIH WITH RTTS TOOL. PRESSUR TEST BRIDGE PLUG. LOCATE SQUEEZE HOLES AT 2060-65' AND 2008-2013'. SET TOOL AT 2021'. SQUEEZE WITH 50 SACKS. WOC. SET RTTS TOOL AT 1953'. SQUEEZE WITH 50 SACKS. WOC.  
1-26-87 RIH AND TAG CEMENT. WOC. DRILL CEMENT PLUGS AND BRIDGE PLUG. CLEAN OUT TO 2171'. MIX AND CONDITION MUD. MAKE UP MILLING TOOL. STRAP IN HOLE TO BOTTOM. PULL UP TO 2125' AND MILL TO 2131'.  
1-27-87 MILLING TO 2145. RIP REPAIRS. MILL TO 2169'. POOH. RIH WITH 7 5/8" BIT.  
1-28-87 SEEP HOLE. CLEAN PITS. MIX KCL AND CHANGE OVER MUD IN HOLE. PICK UP UNDER REAMER. UNDER REAM 2128-2169'. CIRCULATE HOLE CLEAN.  
1-29-87 RUN CALIPER LOG. HOLE UNDERGAUGE. RIH AND CIRCULATE. PICK UP UNDER REAMER. UNDER REAM 2126-2168'. RUN CALIPER LOG. RIH TO 2100'. RIG UP HALLIBURTON FILTER UNIT AND CIRCULATE CLEAN KCL HEC-10 POLYMER THROUGH IT.

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Date  
1-30-87 PICK UP 5 1/2" WIRE WRAPPED LINER AND GRAVEL PACK TOOLS. RIH TO 2168'. RIG UP HALLIBURTON AND GRAVEL PACK WITH 20-40 SAND. MIX AND PUMP 60 SACKS. REVERSE OUT 3 SACKS. WAIT ONE HOUR. PRESSURE UP ON PACK. BACK OUT OF LINER. POOH AND LAYDOWN TOOLS. RUN PHOTON LOG. PICK UP HALLIBURTON, REPACK NUT AND RIH. ATTEMPT TO STAB INTO LINER. POOH. PICK UP LEAD SEAL AND SET AT 2074'.  
1-31-87 LAY DOWN DRILLPIPE AND DRILL COLLARS. RIG UP TONGS AND HYDROTEST EQUIPMENT. CHANGE PIPE RAMS. RUN 66 JTS (2039') OF 5 1/2" K-55, 20 LB., LTC TUBING WITH ATLAS BRADFORD MODIFIED COUPLINGS AND BAKER SABL-3. HYDROTEST PRODUCTION PACKER AND BAKER MODEL 'C' WELL CONTROL VALVE. CLEAN MUDPITS AND MIX INHIBITOR. DISPLACE 64 BBLs OF INHIBITOR INTO ANNULUS. MAKE UP TUBING HANGER AND LAND. SET PACKER WITH 4500 PSI BACK OUT LANDING JOINT.  
2-1-87 NIPPLE DOWN BOP. INSTALL AND TEST TREE. RELEASE RIG.  
WELL ON LINE AS INJECTION/WITHDRAWAL WELL.

Form 6a  
(9/84)