



API / UWI 3003926528	Surface Legal Location 016-027N-005W-N	Field Name BASIN DAKOTA (PRORATED GAS)	License No.	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,527.00	Original KB/RT Elevation (ft) 6,539.00	KB-Ground Distance (ft) 12.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

Vertical schematic (actual)

The diagram illustrates the vertical profile of a wellbore, showing depth in Measured Depth (MD) and True Vertical Depth (TVD) on the left, and a detailed schematic of the wellbore structure on the right. The wellbore is divided into several sections, each with specific components and cementing details.

Key Components and Cementing Details:

- Surface Casing Cement:** 12.0-226.0; 2/2/2001; CEMENT W/ 2.75 SXS CLASS 'B' NEAT CMT W/ 3% CACL, 0.25 PPS FLOCELE (325 CUFT), CIRCULATED 15 BBLs CMT TO SURFACE. Annular flow after cement job (Y/N): N. Hours circulated between stages: 0.25. Pressure before cementing: 500. Excess volume measured from: HOLE VOLUME. Method used to measure density: SCALE. Method used for mixing cement in this stage: TUB. Returns: 15 BBL CEMENT. Time cementing mixing started: 10:36.
- Intermediate Casing Cement:** 389.0-3,503.9; 2/6/2001; TOC 389 BY CALCULATION USING 1.18 CUFT/SX & 78% EFFICIENCY. CEMENT 7" CSG. RAN PREFLUSH OF 20 BBLs OF WATER, 20 BBLs OF MUD, AND 20 BBLs OF WATER, FOLLOWED W/ 439 SXS OF CLASS B LEAD CEMENT W/ 3.78 PER SK SILICATE, 3% GEL, AND 4% CACL2. DENSITY 11.4-YIELD 2.45 CU. FT/ SK. MIX WATER 14.15 GAL/ SK. FOLLOWED WITH TAIL OF 90 SXS OF 5050 CLASS B 'PODAXIX W/ 2% GEL+2% CACL2+ 1/48 PER SK FLOCELE, + 5 PPS GILSONITE. DENSITY 13.5-YIELD 1.33 CU. FT/ SK-MIX WATER 5.38 GAL/ SK. (127 CU.FT). DISPLACED W/ 139.0 BBLs OF FRESH WATER. (BLUMP PLUG WITH 1200# FLOATS HELD FINISHED CEMENTING @ 1633 HRS. 2/20/2001). (DID NOT CIRCULATE CEMENT TO SURFACE. GOT BACK SOME OF PREFLUSH WATER). (HAD CIRCULATION THROUGHOUT JOB. FINAL LIFT PRESSURE WAS 800#). Annular flow after cement job (Y/N): N. Hours circulated between stages: 5. Pressure before cementing: 250. Excess volume measured from: CALCULATED. Method used for mixing cement in this stage: HOPPER. Returns: FULL RETURNS. Time cementing mixing started: 15:28.
- Production Casing Cement:** 5,900.0-7,798.5; 2/13/2001; TOC 5460 RAN BY CBL ON 2/15/2001. CEMENT W/ 423 SXS CLASS 'B' 5050 POZ W/ 3% GEL, 0.9% FLUID LOSS, 5 PPS GILSONITE, 0.25 PPS FLOCELE, 0.2% RETARDANT (622 CUFT). NO CEMENT TO SURFACE. Annular flow after cement job (Y/N): N. Hours circulated between stages: 1. Pressure before cementing: 500. Excess volume measured from: HOLE VOLUME. Method used to measure density: D-OM. Method used for mixing cement in this stage: RCM. Returns: NONE. Time cementing mixing started: 10:45.
- Production Casing Cement (plug):** 7,759.0-7,798.5; 2/13/2001; TOC 5460 RAN BY CBL ON 2/15/2001. CEMENT W/ 423 SXS CLASS 'B' 5050 POZ W/ 3% GEL, 0.9% FLUID LOSS, 5 PPS GILSONITE, 0.25 PPS FLOCELE, 0.2% RETARDANT (622 CUFT). NO CEMENT TO SURFACE. Annular flow after cement job (Y/N): N. Hours circulated between stages: 1. Pressure before cementing: 500. Excess volume measured from: HOLE VOLUME. Method used to measure density: D-OM. Method used for mixing cement in this stage: RCM. Returns: NONE. Time cementing mixing started: 10:45.

Wellbore Components and Locations:

- Tubing Hanger; 7 1/16 in; 50.00 lb/ft; J-55; 12.0 ftKB; 13.0 ftKB
- Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 13.0 ftKB; 44.4 ftKB
- Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 44.4 ftKB; 50.5 ftKB
- Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 50.5 ftKB; 7,666.1 ftKB
- CLIFF HOUSE (final)
- MENELEE (final)
- POINT LOOKOUT (final)
- MANCOS (final)
- GALLUP (final)
- GREENHORN (final)
- GRANEROS (final)
- Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 7,666.1 ftKB; 7,668.2 ftKB
- Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 7,668.2 ftKB; 7,699.6 ftKB
- SEATING NIPPLE; 2 3/8 in; 4.70 lb/ft; J-55; 7,699.6 ftKB; 7,700.7 ftKB
- EXPENDABLE CHECK; 2 3/8 in; 4.70 lb/ft; J-55; 7,700.7 ftKB; 7,701.6 ftKB
- PBTD; 7,759.0

DFW String Key: MCJFK; 3,503.9 ftKB

DFW String Key: 608XW; 7,798.5 ftKB

DFW String Key: 7,798.5 ftKB; 7,798.5 ftKB