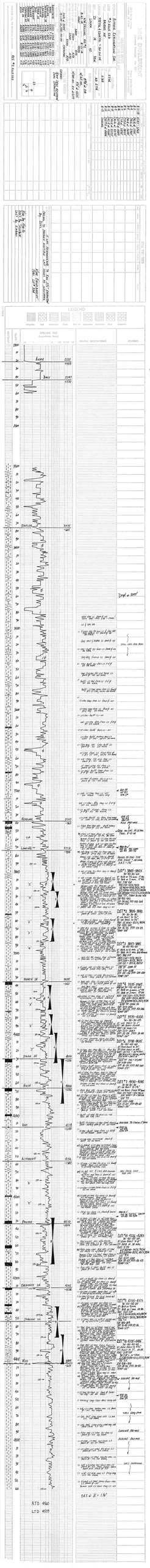
LEGEND
Anhydrite
Salt
Sand/Lime
Shale
Porous Lm
Calc/Lime
Dol/Lime
Chert
Bentonite
DRILLING TIME
(Logarithmic Scale)
SAMPLE DESCRIPTIONS
REMARKS
KB 2111'
GL 2097'
Anhy 2111 (+)
Base 2147 (-36)
Penrose 2935 (-824)
Kirtland 3147 (-1036)
Fruitland 3313 (-1202)
Lower Fruitland Coal 3713 (-1602)
Pictured Cliffs Sandstone 3935 (-1824)
Lewis Shale 4016 (-1905)
Chacra Sd 4616 (-2505)
Base 4716 (-2605)
Cliff House Sandstone 4716 (-2605)
Menefee 4816 (-2705)
Point Lookout Sandstone 5316 (-3205)
Mancos Shale 5416 (-3305)
Gallup 6216 (-4105)
Greenhorn Limestone 6916 (-4805)
Graneros Shale 6966 (-4855)
Dakota Sandstone 7016 (-4905)
TD 7050' (-4939')
LTD 4559
RTD 4960
Drill a 12 1/4" hole to 250' with fresh water spud mud. Run 8 5/8" 24# J-55 ST&C casing to 250' and cement to surface with 150 sx Class B + 2% CaCl2 + 1/4 #/sx Flocele. Circulate cement to surface. WOC 12 hrs. Test casing to 1000 psi for 30 min.
Drill a 7 7/8" hole to TD with fresh water gel mud. Run logs at TD. Run 5 1/2" 15.5# J-55 LT&C casing to TD and cement with 1st stage: 200 sx 50/50 Poz + 2% gel + 5 #/sx Gilsonite + 1/4 #/sx Flocele + 0.4% FL-52. 2nd stage: 500 sx 65/35 Poz + 6% gel + 5 #/sx Gilsonite + 1/4 #/sx Flocele + 0.4% FL-52. Circulate cement to surface. WOC 12 hrs. Test casing to 1500 psi for 30 min.
Install 3000 psi WP double ram BOP system with blind rams in bottom and pipe rams in top. Test BOP to 3000 psi before drilling out surface casing. Test daily thereafter.
Mud Program: 0-250' fresh water spud mud. 250-TD fresh water gel mud. Maintain mud weight 8.4-9.0 ppg, viscosity 28-32 sec, fluid loss 10-12 cc.
Logging Program: Run GR-Dual Induction-Density-Neutron from TD to surface casing. Run GR-CBL from PBTD to TOC.
Coring Program: No coring planned.
Testing Program: No DST's planned.
Completion Program: Perforate and stimulate Fruitland Coal, Pictured Cliffs, Mesaverde, and Dakota formations. Run 2 3/8" 4.7# J-55 EUE tubing to approximately 7000'. Install wellhead and flow test.
Anticipated Pressures: Maximum anticipated bottomhole pressure 1500 psi. Maximum anticipated surface pressure 1000 psi.
Anticipated Start Date: 2004
Duration: 30 days
Surface Ownership: Federal
Mineral Ownership: Federal
Lease No. NM-0000
Elevation: 6097' GL
Total Depth: 7050'
Formation: Dakota
Well No. 1
Lease: Federal 28
Operator: Energen Resources Corporation
Location: 1650' FNL, 1650' FEL, Sec. 28, T30N, R12W, San Juan County, New Mexico
Footage: 1650' FNL, 1650' FEL
Section: 28
Township: 30N
Range: 12W
Unit: G
Field: Basin Dakota
Pool: Basin Dakota
Prepared by: Energen Resources Corporation
Date: 2004
Scale: 1" = 1000'
Contour Interval: 20'
Drilling Fluid: Fresh water spud mud
Casing Program: 8 5/8" 24# J-55 ST&C @ 250'; 5 1/2" 15.5# J-55 LT&C @ TD
Cement Program: 1st stage: 200 sx 50/50 Poz + 2% gel + 5 #/sx Gilsonite + 1/4 #/sx Flocele + 0.4% FL-52. 2nd stage: 500 sx 65/35 Poz + 6% gel + 5 #/sx Gilsonite + 1/4 #/sx Flocele + 0.4% FL-52.
Logging Program: GR-Dual Induction-Density-Neutron; GR-CBL
Coring Program: None
Testing Program: None