

PERC**WELL CHRONOLOGY REPORT**

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MAY 2003

WELL NAME : HORTON 4BFIELD : BLANCO MESA VERDECOUNTY & STATE : SAN JUANWI% : 25.00000 AFE# :

DHC :

CWC :

AFE TOTAL :

DISTRICT :

LOCATION : NE SW SEC. 27, T32N, R12W

CONTRACTOR :

PLAN DEPTH : 5,250SPUD DATE : 4/2/2003FORMATION : MESAVERDE**REPORT DATE : 4/2/2003**MD : 0TVD : 0DAYS : 0

MW :

VISC :

DAILY : DC : \$39,435CC : \$0TC : \$39,435CUM : DC : \$39,435CC : \$0TC : \$39,435

DAILY DETAILS : Rig - down off Cutthroat #14, MIRU on Horton 4B.

REPORT DATE : 4/3/2003MD : 226TVD : 0

DAYS :

MW :

VISC :

DAILY : DC : \$14,837CC : \$0TC : \$14,837CUM : DC : \$54,272CC : \$0TC : \$54,272

DAILY DETAILS : Rig - up. W.O. mud. Mix spud mud. Spud the Horton #4B @ 12:30 hrs., 4/2/03. Drilled 12-1/4" hole from 0'-104', 52'/hr. Wire line survey @ 94' - 1/4 deg. Drilled 12-1/4" hole from 104' to 226' 69.7'/hr. Wire line survey @ 226' - 0.0 deg. CIRC and TOOL. RU & Run 9-5/8" CSG. CSG stopped @ 80', attempt to CIRC down - no go. Lay down CSG. TIH W/ bit & BHA, CIRC, increase viscosity to 100, short trip, work tight spot, CIRC, TOO. RUN 9-5/8", 36.0#, K-55, LT&C. CSG. Total length - 226.19'. CSG equipped w/guide shoe, insert baffloe & 3 central. RIGUP Cementors, safety meeting. CEMENT 9-5/8" surface CSG w/ 125 sks of Class G w/ 2% CaC12, .25#/sk. D-29. Full returns throughout job, CMT to surface, recovered 20 bbls of CMT. Plug Down @ 03:15 hrs. WOC, clean mud tank.

REPORT DATE : 4/4/2003MD : 226TVD : 0

DAYS :

MW :

VISC :

DAILY : DC : \$31,130CC : \$0TC : \$31,130CUM : DC : \$85,402CC : \$0TC : \$85,402

DAILY DETAILS : WOC. CUT off CSG. Weld on csg head. NU-up BOP's. Test BOP's - Blind rams, pipe rams, chk manifold, safety valve, kelly valve - 2000 psi, csg - 1500 psi. TIH. D.O. CMT and shoe. Drilled 8-3/4" hole from 226' to 238' for integrity test. Integrity test to 12.0 ppg equivalent @ 238'. Drilled 8-3/4" hole. from 238' - 670' 78.54'/hr.

REPORT DATE : 4/5/2003MD : 2,266TVD : 0

DAYS :

MW :

VISC :

DAILY : DC : \$8,309CC : \$0TC : \$8,309CUM : DC : \$93,711CC : \$0TC : \$93,711

DAILY DETAILS : Drilled from 670' to 756' 57.33'/hr. Circulate. Wire line survey @ 716' - 1 deg. Drilled from 756' to 1262' 119.1'/hr. Wire line survey @ 1222' - 1/4 deg. Rig Service. Drilled from 1262' - 1515' 67.5'/hr. Rig Service. Drilled form 1515' - 1769' 56.44'/hr. Wire line survey @ 1737' - 1 1/4 deg. Drilled form 1769' - 1896' 50.8'/hr. Rig Service. Drilled from 1896' to 2266' 67.3'/hr.

REPORT DATE : 4/6/2003MD : 2,960TVD : 0

DAYS :

MW :

VISC :

DAILY : DC : \$10,161CC : \$0TC : \$10,161CUM : DC : \$103,872CC : \$0TC : \$103,872

DAILY DETAILS : Drilled from 2266' - 2329' 84'/hr. Wire line survey @ 2289 - 3/4 deg. Drilled from 2329' - 2656' 52.3'/hr. Rig repair. Drilling from 2656' - 2960' 32.8'/hr. Short trip 10 stands, encountered bridge @ 2773', wash thru bridge. Circulate. Mix pill, drop survey. Time change - Daylight savings time. TOO. for logs.

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REPORT DATE : 4/7/2003 MD : 2.960 TVD : 0 DAYS : MW : VISC :
 DAILY : DC : \$49.901 CC : \$0 TC : \$49.901 CUM : DC : \$153.773 CC : \$0 TC : \$153.773
 DAILY DETAILS : TOO H. RU loggers (Halliburton), log well, drillers TD = 2960', loggers TD = 2958'. Rig down loggers. TIH. Circulate. LDDP & DC's. Rig-up casing crew. Run 7", 23.0#, J-55, LT&C intermediate csg - total length = 2966.63'. Circulate, Rig-down csg. Crew, rig-up cementers. Cement 7" csg. w/ 235 sks of G cmt, tailed w/165 sks. 50/50 POZ. Full returns throughout job. Recovered 10 bbls of cmt. Plug down @ 23:51 hrs. - ok. Rig down cementers, N/D BOP's. Set 7" csg slips w/ 70,000#. Cut-off 7" csg. N/U BOP's. Test 3-1/2" pipe rams, broken seal and csg w/ Hi Tech Testers. Turn bowl of rotating head for air drilling operations.

REPORT DATE : 4/8/2003 MD : 3.900 TVD : 0 DAYS : MW : VISC :
 DAILY : DC : \$16.030 CC : \$0 TC : \$16.030 CUM : DC : \$169.803 CC : \$0 TC : \$169.803
 DAILY DETAILS : Adjust rotating head. Install blooie line. Change - out Kelly. Finish blooie line installation. Rig-up Air Package. Test Air Hammer Bit. PU BHA & drill collar. RIG SERVICE. PU Drillpipe - Tally - In. Break circulation, unload csg of wtr. Do float collar, cmt & shoe. Drilled 6-1/4" hole from 2950' to 3400' 135.4'/hr. RIG SERVICE. Drilled 6-1/4" hole from 3400' to 3900' 133.3'/hr.

REPORT DATE : 4/9/2003 MD : 5.180 TVD : 0 DAYS : MW : VISC :
 DAILY : DC : \$12.217 CC : \$0 TC : \$12.217 CUM : DC : \$182.020 CC : \$0 TC : \$182.020
 DAILY DETAILS : Drilled 6-1/4" hole from 3900' to 4272' 93.0'/ hr. Work bit, attempt to drill. TOO H to check bit. Inspect hammer bit, change head (1/2" out of gauge, worn cutters). Test bit. Rig service. TIH to 4227'. Ream under-gauge hole from 4227' to 4272' (45'). Attempt to drill, pump 10 gal soap down hole, work pipe, dry hole. Drilled 6-1/4" hole from 4272' to 5016' 87.5'/ hr. Work Tight Hole. Drilled 6-1/4" hole from 5016' to 5180' 164'/ hr.

REPORT DATE : 4/10/2003 MD : 5.412 TVD : 0 DAYS : MW : VISC :
 DAILY : DC : \$55.137 CC : \$0 TC : \$55.137 CUM : DC : \$237.157 CC : \$0 TC : \$237.157
 DAILY DETAILS : Drilled 6-1/4" hole from 5180' to 5412' 116'/ hr. Blow hole clean. TOO H for logs. Safety meeting, Rig-up loggers, (Halliburton). Log Well, (HRI, HRT, Density Spaced Neutron Deep Resistivity). Rig-down loggers. Pick-up 4-1/2", 10.5#, K-55, ST&C liner total length = 2605.8', pick-up hanger. Rig down csg crew. TIH w/ Liner & drillpipe - hit bridge @ 5365' Circulate hole w/ Air and mist, Worked thru bridge @ 5365' to 5385'. Hole becoming sticky. Circulate. R/U cementers, cmt liner w/ 125 sks LiteCrete cmt., Tailed w/ 200 sks of 50/50 Poz. Displaced w/ 60.5 bbls wtr. Bumped plug @ 1000 psi - ok. circulate 7" volume - No cement returns, R/D cementers. Liner set @ 2759.72' - 5382'. LDDP and Liner hanger. TIH w/ DC's & DP. LDDP. Break Kelly. LDDC. N/D BOP's.

REPORT DATE : 4/11/2003 MD : 5.412 TVD : 0 DAYS : MW : VISC :
 DAILY : DC : \$6.923 CC : \$0 TC : \$6.923 CUM : DC : \$244.080 CC : \$0 TC : \$244.080
 DAILY DETAILS : Clean mud tank, N/D BOP's. Cap well.

REPORT DATE : 4/12/2003 MD : 5.412 TVD : 0 DAYS : MW : VISC :
 DAILY : DC : \$0 CC : \$0 TC : \$0 CUM : DC : \$244.080 CC : \$0 TC : \$244.080
 DAILY DETAILS : WOCT.