

ATTACHMENT #1 to WELL COMPLETION REPORT AND LOG

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#3-32 Phillips

Cementing records:

Surface casing: Spud at 12:30 PM, 10-15-83, drilled 12-1/4" hole to 280' KB. Ran 6 joints 8-5/8", 24#/ft., K55, STC, R3 casing (threads off measurement of 255'). Set casing at 269' KB. Woodco cemented with 250 sacks Class "B" with 1/4#/sk. flocele and 2% CC.(295 c.f.) Circulated cement to surface. Plug down at 5:00 PM.

Production casing: Ran 203 joints, 4-1/2", 11.6#, N80, LTC, R3 casing (7981' threads off) : set at 7975.00' KB. Float at 7935' KB. D.V. Tool at 5506' KB. Cemented in two stages as follows:
1st stage: 500 sacks(710 cu. ft.) Class "B" 50/50 poz. with 6-1/4# per sack gilsonite, 6# per sack salt, 1/4# per sack flocele. Preceded cement with 10 bbls Flo-chek. Circulation good throughout job. Plug down at 12:45 AM on 11-1-83. Pressure tested to 1550 psig. Held okay. Opened DV and circulated 2 hours. 2nd stage: 800 sacks (1912 cu. ft.) Class "B" 65/35 poz. w/ 12% gel. and 10# per sack gilsonite followed by 150 sacks (177 cu. ft.) Class "B" w/ 2% calcium chloride. Preceded cement with 10 bbls flo-chek. Circulation good throughout stage. Plug down at 4:30 AM. 11-1-83. Top cement first stage @ 6520' Top cement second stage @ 2014'

Dakota Perforations and Stimulation:

Perforations:

7930 - 7950 20 0.38" holes
7850 - 7856 6 0.38" holes
7760 - 7780 20 0.38" holes
7698 - 7704 6 0.38" holes total of 52 holes.

Acidized with 1500 gallons 15% HCL acid.

Stimulation:

20,000 gallons PAD
10,000 gallons w/ 1/2#/gal. 20/40 sand
20,000 gallons w/ 1#/gal.
25,000 gallons w/ 2#/gal.
20,000 gallons w/ 3#/gal. Total 135,000# sand.
Total of 95,000 gals gel water.