

ATTACHMENT
TO
STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
FORM C-105

C. W. Stumhoffer
SHIPMAN # 1
SW/4 NE/4 Section 35-T22S-R37E
LEA COUNTY, NEW MEXICO

28. CEMENTING RECORD

Surface casing, 8-5/8" OD, 23#, Cemented with 400 sks Class C with 4% gel, 2% CaCl, and 1/4# Flocele followed with 200 sks Class C with 2% CaCl and 1/4# Flocele. Cement circulated.

Production casing, 4-1/2" OD, 11.60#, Cemented in two stages. First stage cemented through float shoe set @ 3654' KB with 150 sks Class C pozmix with 2% CaCl and 9# salt/sk. Second stage cemented through DV tool set @ 3128' KB as follows:

- (1) Pumped 800 sks (200 Thixset, 400 Class C, 200 Thixset) w/ 3% CaCl followed w/ 12 bbls fresh water to clear DV tool.
- (2) Balanced water flow from 7 Rvrs @ approximate depth of 3090' between casing and casing annulus to establish cement plug in casing annulus above 7 Rvrs. water flow.
- (3) Pumped 400 sks Class C cement with 3% CaCl through DV tool and over displaced by 12 bbls fresh water into 7 Rvrs water flow.
- (4) Squeezed 7 Rvrs water flow through DV tool with 200 sks Class C cement with 3% CaCl.
- (5) Re-squeezed 7 Rvrs water flow through DV tool with 200 sks Class C Thixset with 3% CaCl followed by 200 sks Class C with 3% CaCl.
- (6) Total cement used to cement production casing, 1800 sks.

32. Acid, Shot, Fracture, Cement Squeeze, Etc.

7/22/82	3642'-50' KB (Perf)	Acidize w/ 750 gals 15% NE.
8/2/82	3642'-50' KB (Perf)	Frac w/ 12,000 gals gelled water, 7500# 20/40 sand, and 6000# 10/20 sand.
8/20/82	3642'-50' KB (Perf) and 3654'-85' KB open hole	Cement squeeze w/ 100 sks -- 50 sks Class C w/ 0.3% Halad 9 and 50 sks Class C neat.
8/23/82	3561'-3632' KB(Perf) overall	Acidize w/ 2000 gals 15% NE acid w/ 60 ball sealers.
8/25/82	3561'-3632' KB(Perf) overall	Frac w/ 40,000 gals gelled water, 40,000# 20/40 sand, and 18,000# 10/20 sand in two stages.