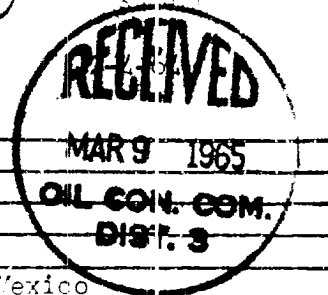


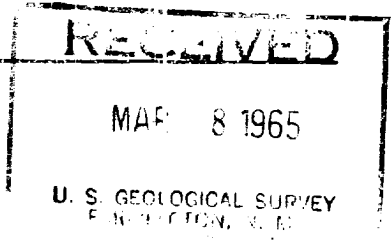
BJ SERVICE, INC.
FARMINGTON, NEW MEXICO
PHONE 325-6961 or 325-9861



Company Name Austral Oil Company, Inc.
Company Engineer Wayne Hutson, Rig Pusher
Well Name Federal-1-15 Marshall #2
Casing Size & Hole Size 4 1/2" 10.5 lb. casing, in 7 7/8" hole
Stage Collars Set @ 4604' & 2205', Baker Stage tool
Date of Job 12-3-64 County and State San Juan, New Mexico
Drilling Company and Pusher Loffland Bros. Drilling, Wayne Hutson

1 Stage

Using GP-100 Mix for Flush, Starting Time 3:50 AM 12-4-64
10 Bbls water with 1 gallon J-22
5 Bbls water with 25 sks Diamix A & 12 1/2 cu ft Strata Crete 6
10 Bbls water with 200 lbs Lime
5 Bbls water 25-sks Diamix A & 12 1/2 lbs Strata Crete 6



Starting Time for Cement Mix 4:00 AM
Sacks of Mix 120 sks Cement, 120 sks Diamix A, 6 1/2 Gal, 1/3 lb. Gallo Flake, Reg. Type I Cemt.
Slurry Vol. 338 cu ft, Slurry Wt. 12.3
End of Mixing Time, Flush lines with water, drop plug.
Start Disp. 4:14 AM, Cir. PSI 700, Disp. Fluid, Type Water
Vc. , BPM req. for Turbulent Flow hole.
Rate of Disp. 12 BPM, Vol. of Disp. 10 1/2 bbls., Max. PSI 2000
Time Plug is Bumped 4:23 AM. Remarks:

Stage Collar opened @ 4:40 AM 12-4-64 @ 1200 PSI

2 Stage

Starting Time for GP-100 Mix 9:15 AM, Starting Time for Cement Mix 9:27 AM
Sacks of Mix 200 sks Type C Cemt., 4 1/2 Gal, 3 cu ft Strata Crete 6, 1/3 lb. Gallo Flake
Slurry Vol. 454 cu ft, Slurry Wt. 13.7
End of Mixing Time 9:23 AM, Flush lines with water, drop plug
Start Disp. Time 9:45 AM, Cir. PSI 500, Disp. Fluid, Type Water
Vc. , BPM req. for Turbulent Flow
Rate of Disp. 14.6, BPM, Vol. of Disp. 23 bbls., Max. PSI 2000
Remarks: Good Circ.

Time Plug Bumped 9:50 AM
Stage Collar opened @ 10:20 AM @ 1200 PSI

3 Stage

Starting Time for GP-100 Mix Not Used, Starting Time for Cement Mix 4:00 PM
Sacks of Mix 120 sks Type C Cemt., 4 1/2 Gal, 1/3 cu ft Strata Crete 6, 1/3 lb. Gallo Flake
Slurry Vol. 250 cu ft, Slurry Wt. 13.4
End of Mixing Time 4:12 PM, Flush lines with water, drop plug
Start Disp. 4:12 PM, Cir. PSI 500, Disp. Fluid, Type Water
Vc. , BPM req. for Turbulent Flow
Rate of Disp. 14, BPM, Vol. of Disp. 20 bbls., Max. PSI 2000
Time Plug is Bumped 4:20, 2
Remarks: Good Circ.

BJ Service, Inc. Engineers on this Job G. W. Davis
Trucks Used 1267-F, 5232-B, 5233-B, 5000-W, 5254-B
Name of man making this report G. W. Davis / by J. Bush