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O. C. C.
ARTESIA, OFFICE

WELL NAME: *Hess Hills Unit*
UNIT: ~~Thornton Federal~~
WELL: No. 1
WELL TYPE: Wildcat
STATE: New Mexico
WELL DEPTH: 2128' FSL & 1980' FWL, Section 34,
T-23-S, R-23-E, Eddy County, New Mexico
WELL DEPTH: 10,800
WELL TYPE: Gas
WELL DEPTH: 4375

NOTE: USGS in Artesia must be notified before spudding and before each casing job. Surface and intermediate cement must circulate or be recemented down casing annulus with 1" pipe until it circulates. 100% excess is recommended.

1. Drill 15" hole to 300'±.
2. Cement 11-3/4", 42#/ft, H-40 casing at T.D. with sufficient class C with 2% CaCl_2 to circulate. Run guide shoe with insert float in top of shoe joint and use bar type centralizers on bottom three joints.
3. If float holds, release pressure immediately, install BOP, test casing and drill out after 8 hrs. from plug down.
4. Drill 11" hole to 2500'±.
5. Cement 8-5/8", 24#/ft, J-55 casing at T.D. with sufficient class C with 4% gel and tail in with 100 sacks class C / 2% CaCl_2 to circulate to surfaces. Use guide shoe with insert float and use bar type centralizer on bottom three joints. (No more than 4% gel to be used.)
6. If float holds, release pressure immediately, install BOPs and test casing to 1000 psi for 30 minutes after 8 hrs. and drill out.
7. Drill 7-7/8" hole to 10,800'±.
8. Cement 5-1/2" casing or 4-1/2" casing per attached design with class C with 4% gel and tail in with class C Latex. Cement must reach 1000' above pay zone. Use float shoe and differential fillup collar. Use reciprocating scratchers and centralizers to cover productive interval (No more than 4% gel to be used).