

AQP Well Procedure

CASING PROGRAM

Lease: Tippin Ranch UnitWell No.: 1Production - Drill a 7 7/8" hole to 10,300'+ and set 5 1/2" casing.

| AMOUNT | SIZE | PIPE REQUIREMENT | | GRADE | CONNECTION |
|--------------|---------------|------------------|--|-------------|-----------------|
| | | WT./FT. | | | |
| <u>1900'</u> | <u>5 1/2"</u> | <u>17.0</u> | | <u>K-55</u> | <u>Buttress</u> |
| <u>6400'</u> | <u>5 1/2"</u> | <u>17.0</u> | | <u>K-55</u> | <u>LT&C</u> |
| <u>2000'</u> | <u>5 1/2"</u> | <u>17.0</u> | | <u>N-80</u> | <u>LT&C</u> |

CASING EQUIPMENT & PREPARATIONRun with insert float shoe and insert float collar with automatic
fill tubes and 10 centralizers.Sandblast bottom 1000 feet and clean threads.

CEMENT PROGRAM

| Stage No. | Type & Additive Composition | Sl. WT. #/gal. | Sl. VOL. ft. ³ /sx. | Water gal./sx. | Pump Time | 24 hr. Comp. St. psi @ degrees |
|------------|-----------------------------|----------------|--------------------------------|----------------|-------------|--------------------------------|
| <u>400</u> | <u>Class H 0.75%</u> | <u>16.4</u> | <u>1.10</u> | <u>4.5</u> | <u>2:00</u> | <u>5500 @ 140°</u> |
| | <u>CFR-2 & 5# KCl</u> | | | | | |
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Remarks: Precede cement with 500 gallons mud flush and mix the first
25 sx at 12#/gal to act as a scavenger slurry to remove hard
filter cake.