UNITED STATES

DEPARTMENT OF THE INTERIOR

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Howell D #352

PUMPING UNIT INSTALLATION PROCEDURE 7 12/16/99

1:23

<u>Unit A, Section 31, T31N-R8W, San Juan County, New Mexico</u> <u>Lat. 36.858610 / 36° 51.52'</u> Long. 107.710340 / 107° 42.62'

- 1. MIRU pulling unit.
- 2. NDWH / NU BOP. Kill if necessary with produced Fruitland coal water.
- 3. PU one joint of tubing and TIH to tag for fill.
- 4. TOOH, laying down tubing (tubing is set @ 3179'. There are 88 joints of 3-1/2" 9.3# J-55, 10 joints of 2-7/8" 6.5# J-55 and an "F" nipple @ 3146').
- 5. PU 4-3/4" bit and 2-3/8", 4.7#, J-55 EUE tubing and TIH to COTD. Circulate hole clean. (Note: COTD is @ ~3188'.)
- 6. TIH w/ 2-3/8" tubing string configured for downhole pump and land @ 3183'. Purge valve will be on bottom, followed by pup joint, perforated sub, and seating nipple. Space out as needed with pup joints.
- 7. Hang tubing in donut. ND BOP / NUWH.
- 8. TIH w/ new 1.25" top hold down pump, 3/4" Grade D sucker rods w/ spray metal couplings, polished rod, and polished rod liner. (Note: Vendor contact is listed below)
- 9. Seat the downhole pump, hang horses head, and space out pump.
- 10. Load tubing, and pressure test.
- 11. Start pumping unit and test (adjust spacing as required).
- 12. RDMO.

COMPLY WITH ALL FEDERAL, STATE AND LOCAL RULES AND REGULATIONS RELATING TO OIL AND GAS OPERATIONS.

Prepared: D.W. Mussett

Pump vendor: ENERGY PUMP

Leo Noyes @ 564-2874

nuce W. Dones 12.19.90

Howell D #352 12/15/99 Basin Fruitland Coal

1165' FNL 1000' FEL (Unit A), Section 31, T31N-R8W, San Juan Co., New Mexico

