

U.S. GEOLOGICAL SURVEY
JUL 7 11 51 PM '69
JUL 7 10 45 AM '69

DRILL STEM TEST DATA
TOM L. INGRAM #1 GRANNY
Section 1, T11S, R36E

- Drill Stem Test #1: 4993-5043. Opened with weak blow for 15 mins. ICIP 60 min. Re-opened with weak blow, continued throughout test. Tool open for 60 min. FCIP 60 min. Recovered 270' drilling water + 60' slightly OCSW. HI 2179, HO 2169, 60 min ICIP 1755, FCIP 1530, IF 114, FF 200, BHT 130°.
- Drill Stem Test #2: 9573-9707. Opened 1 hr. Recovered 350' mud. HI 4587, 60 min ICIP 1198, IF 299, FF 254, Tool trying to plug, 60 min FCIP 670, HO 4587.
- Drill Stem Test #3: 10024-10104. Opened with weak blow for 15 min preflow. SI for 1 hr. Reopened and died immediately. Left open for 30 min. Recovered 150' mud. HI 4738, 60 min ICIP 3580, IF 98, FF 138, 30 min FCIP 3016, Still Building, HO 4738, BHT 148°.
- Drill Stem Test #4: 11035-11254. Open 3 hrs. Began with weak blow increasing to strong and continued throughout. Recovered 720' SWCM and 2880' SW. HI 5220, IF 673, FF 1815, 60 min FCIP failed, HO 5140, BHT 192°.
- Drill Stem Test #5: 11555-11590. Preflow for 20 min. ISI for 60 min. 2 hr flow. FSI for 2 hr. Opened with weak blow and continued throughout. Recovered 300' drilling fluid. HI 5460, ICIP 3538, IF 89, FF 149, FCIP 3413, HO 5220.
- Drill Stem Test #6: 11565-11780. 1580' water blanket. Preflow for 20 min. ISI for 60 min. 3 hr flow. FSI for 1-1/2 hrs, GTS for 10 min after second opening. Volume gradually increasing from 483 MCF-622 MCF on 1" choke. Recovered 90' slightly distillate and heavily gas-cut water blanket (Unloaded 950' water blanket and 850' distillate) and 90' distillate (53° gravity) and 540' of gas and distillate water cut blanket. HI 5621, ICIP 3959, IF 1048, FF 1273, FCIP 3928, HO 5417, BHT 176°.
- Drill Stem Test #7: 12125-12347. 1968' water blanket. Opened for 30 min preflow. SI for 60 min ICIP. Open for 2 hrs. SI for 2 hr FCIP. Recovered water blanket slightly gas cut, + 540' drilling mud, + 6660 salty sulfur water (46,000 PPM chloride). HI 5510, 60 min ICIP 4710, IF 3410, FF 4710, 120 min FCIP 4710, HO 5510.