

- DST #1: 5600 - 5850' (250' Blinberry Dolomite). Tool open 20 min. thru 5/8" BC & 1" TC on 3 1/2" DS. Strong blow immediately. Gas to surface in 4 min., mud in 6 min., condensate in 7 min. Flowed gas with heavy mist of condensate @ rate of 7.5 MMCF/d. Condensate estimated @ 3 barrels per hour. Recovered 450' (2.67 barrels) gas and condensate cut mud. FBHP 1050 - 1275 psi. 15 minute SIBHP 2225 psi. HME 2500 psi. Positive Test.
- DST #2: 6099 - 6400' (Tubb Dolomite). Tool open 30 min. thru 5/8" BC & 1" TC on 3 1/2" DS. Fair air blow immediately, increased to good, then gradually diminished during remainder of test. Recovered 660' (4.88 barrels) slightly gas cut mud. FBHP 250 psi. 15 minute SIBHP 1000 psi. HME 2875 psi. Positive Test.
- DST #3: 6880 - 7170' (290' Abo Dolomite). Tool open 3 3/4 hours thru 5/8" BC & 1" TC on 3 1/2" DS. Fair blow throughout test. Gas to surface in 19 minutes. Recovered 990' (6.9 barrels) heavily oil & gas cut mud, estimated 20% oil. FBHP 100 psi. 30 minute SIBHP 575 psi. HME 3325 psi. Positive Test.
- DST #4: 7169 - 7380' (211' Abo Dolomite). Tool open 60 min. thru 5/8" BC & 1" TC on 3 1/2" DS. Fair blow throughout test. Gas to surface in 37 minutes. Recovered 5200' (36.4 barrels) oil-water-mud emulsion (estimated 60% oil, 25% water & 15% mud). Water filtrate titrates 105,000 ppm chlorides. FBHP 500 - 2100 psi. 30 minute SIBHP 2550 psi. HME 2550 psi. Positive Test.
- DST #5: 7795 - 7880' (95' McKee Sand). Tool open 1 hour 35 min. thru 5/8" BC & 1" TC on 3 1/2" DS. Strong blow immediately. Gas to surface in 12 min., mud in 15 min., oil in 17 min. Flowed to pits to clean then flowed 60 barrels oil, cut 0.2% BS, no water in 45 minutes. Gravity 44° API. GOR 1244. Reversed recovery. Recovered 270' (1.71 barrels) clean oil below circulating sub. HME 3880 psi. FBHP 2200 psi. 15 minute SIBHP 2880 psi. Positive Test.
- DST #6: 7880 - 7920' (40' McKee Sand). Tool open 1 hour 50 min. thru 5/8" BC & 1" TC on 3 1/2" DS. Strong blow immediately. Gas to surface in 4 min., mud in 8 min., oil in 10 min. Flowed to clean then flowed 99 barrels oil, cut 0.6% BS, no water in 95 minutes. GOR 289. Gravity 43.6° API. Reversed recovery. Recovered 270' (2.71 barrels) clean oil below circulating sub. HME 3750 psi. FBHP 1325 - 1950 psi. 15 minute SIBHP 2700 psi. Positive Test.
- DST #7: 7924 - 7950' (26' McKee Sand). Tool open 2 hours thru 5/8" BC & 1" TC, on 3 1/2" DS. Fair blow throughout test. Gas to surface in 45 minutes. Recovered 210' (1.3 barrels) heavy oil & gas cut mud, estimated 40% oil, no water. HME 3750 psi. FBHP 0 psi. 15 minute SIBHP 900 psi. Positive Test.
- DST #8: 7923 - 7982' (59' McKee Sand). Tool open 1 1/2 hours thru 5/8" BC & 1" TC on 3 1/2" DS. Strong blow throughout test. Gas to surface in 9 minutes. Recovered 90' (.66 barrels) mud, 90' (.66 barrels) clean oil, Gravity 42.5° API, & 720' (5.3 barrels) heavily mud cut oil (estimated 30% mud) with trace Salt Water. Salt water titrates 36,200 ppm chlorides. HME 3900 psi. FBHP 0 - 375 psi. 15 minute SIBHP 2050 psi. Positive Test.

1. *Chlorophyll a* and *Chlorophyll b* (mg/g)

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Lichtenthaler (1987).

11. 12.

10. *Chlorophyll *a** and *Chlorophyll *b** were determined by the method of Lichtenthaler and Sponholz (1980).

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Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group and the experimental group. The control group was divided into two subgroups: the control group and the control group. The experimental group was divided into two subgroups: the experimental group and the experimental group.

Figure 1. (a) Schematic diagram of the experimental setup. (b) Schematic diagram of the experimental setup.

Attachment Form C-105

Livingston 6
Hare Field
Lea County, N.M.

DST #9: 8086 - 8120' (34' Connell Sand). Tool open 1 hour thru 5/8" BC & 1" TC on 3 1/2" DS. Strong blow throughout test. Gas to surface in 4 minutes. Took 15 minute SIBHP, could not free packers. Filled drill pipe with mud & jarred packers loose. Pulled 6 stands and broke circulating sub. Reversed recovery estimated 2750' (17.25 barrels) mud which was pumped into drill pipe, 1100' (7.7 barrels) oil and gas cut mud estimated 10% oil, 420' (2.94 barrels) heavily oil and gas cut mud estimated 25% oil, 3050' (21.35 barrels) mud cut oil estimated 40% mud, 320' (3.64 barrels) slightly mud cut oil, estimated 15% mud & 210' (1.47 barrels) gassy salt water cut mud. Recovered 270' (1.89 barrels) muddy gas cut salt water below circulating sub. Salt water titrates 70,000 ppm chlorides. HMM 4025 psi. FHP 500 - 1300 psi. 15 minute SIBHP 2200 psi. Positive Test.

DST #10: 8163 - 8200' (37' Ellenburger Dolomite). Tool open 2 hours thru 5/8" BC & 1" TC on 3 1/2" DS. Weak blow throughout test. Recovered 40' (.28 barrels) drilling mud with no shows. FHP 0 psi. 15 minute SIBHP 0 psi. HMM 3925 psi. Positive Test.

DST #11: 8170 - 8230' (60' Ellenburger Dolomite). Tool open 95 minutes thru 5/8" BC & 1" TC on 3 1/2" DS. Strong blow immediately decreasing to fair after 1 hour. Gas to surface in 5 minutes. Recovered 1230' (8.61 barrels) 42° API Gravity oil, 360' (2.52 barrels) mud cut oil, estimated 15% mud, and 300' (2.11 barrels) salt water. Salt water titrates 63,500 ppm chlorides. FHP 0 - 500 psi. 15 minute SIBHP 1800 psi. HMM 4000 psi. Positive Test.

1900 gal. 15 minute LINT 2800 gal. Positive Test.
Salt water address 70,000 ppm chlorides. WHEN 4000 gal. WITH 200 -
270' (1.62 barrels) muddy gas cut salt water below circulation and
157 and a 210' (1.47 barrels) gray half water cut mud. Recovered
estimated 60' mud, 210' (1.64 barrels) slightly run out oil, estimated
gas cut was estimated 757 oil, 2020' (21.55 barrels) mud cut oil
gas cut was estimated 101 oil, 420' (2.99 barrels) heavily oil and
and which was pumped into drill pipe, 1100' (7.7 barrels) oil and
circulating mud. Recovered recovery estimated 2720' (17.55 barrels)
drill pipe with 4 turned breakers loose. Pulled 6 stands and broke
in 4 minutes. Took 15 minutes LHM, could not turn breakers. Filled
12' on 2 1/2" OC. 27-inch plug throughout test. Gas cut analysis
4000 - 2100' (1.44 barrels) sand). Took open 1 hour three 2 1/2" OC

1. The following information was obtained from the review of the file of the above named individual:

1600 gal. 98% sulfuric acid. Positive result.
distilled 65,000 gm chloride. With 0 - 200 cal. 12 minutes. LIGHT
estimated 150 gal. and 300' (1.1 barrels) salt water. Half water
(8.6l barrels) 45' (1.1 barrels) oil, 160' (2.2 barrels) mud cut off.
Fair after 1 hour. Gas no surface in 2 minutes. Recovered 1250'.
5/8" DC & 17 3/4" ID. Strong flow immediately decreasing to
100' (1.1 barrels) negative holewise). Tool open 25 minutes three