

TYPE & SIZE MEASURING DEVICE:

6" POSITIVE FLOOR MANIFOLD

TICKET NO: 43690200

| TIME | CHOKE SIZE | SURFACE PRESSURE PSI | GAS RATE MCF | LIQUID RATE BPD | REMARKS |
|---------|------------|----------------------|--------------|-----------------|----------------------------------|
| 6-22-80 | | | | | |
| 21:30 | | | | | ON LOCATION |
| 22:00 | | | | | RIG UP TEST TOOLS |
| 6-23-82 | | | | | |
| 01:26 | | | | | RAN WATER BLANKET |
| 04:20 | | | | | FINISH WATER BLANKET |
| 07:20 | .122 | 2# | | | OPENED TOOL WITH A STRONG BUBBLE |
| 07:25 | .125 | 3 | | | STRONG BUBBLE. |
| 07:29 | .375 | 5 | | | SWITCH TO .375 CHOKE. |
| 07:35 | .375 | 7 | | | CLOSED TOOL |
| 08:15 | .375 | 20 | | | GAS TO SURFACE. |
| 08:30 | .375 | 20 | | | |
| 08:35 | .375 | 45 | 204 | | OPENED TOOL |
| 08:40 | .375 | 110 | 425 | | PSI INCREASING. |
| 08:45 | .375 | 100 | 391 | | PSI DROPPING |
| 08:50 | .375 | 70 | 289 | | PSI DROPPING |
| 08:52 | .375 | 220 | 799 | | WATER TO SURFACE |
| 08:55 | .375 | 400 | 1411 | | PSI INCREASING |
| 09:00 | .500 | 600 | 3849 | | SWITCH CHOKE, PSI INCREASING |
| 09:05 | .500 | 775 | 4945 | | FLARE OUT, GAS TOO WET |
| 09:10 | .500 | 950 | 6041 | | PSI INCREASING |
| 09:15 | .500 | 1100 | 6980 | | PSI INCREASING |
| 09:20 | .500 | 1300 | 8232 | | TOP PSI |
| 09:25 | .500 | 1200 | 7606 | | WATER CLEARING UP |
| 09:30 | .500 | 1100 | 6980 | | PSI DROPPING |
| 09:31 | .500 | 1050 | 6667 | | WATER ALL CLEARED UP |
| 09:35 | .500 | 1000 | 6354 | | CLOSED TOOL |
| 11:35 | | | | | OPENED BYPASS, PULLED 3 STANDS |
| 13:00 | | | | | STARTED CIRCULATING. |
| 15:50 | | | | | STARTED OUT OF HOLE. |
| 22:20 | | | | | LAI D DOWN TOOLS. |
| | | | | | |
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| | | | | | |

TICKET NO: 43690200
 CLOCK NO: 13428 HOUR: 24



GAUGE NO: 7303
 DEPTH: 13580.0

| REF | MINUTES | PRESSURE | ΔP | $\frac{t \times \Delta t}{t + \Delta t}$ | $\log \frac{t + \Delta t}{\Delta t}$ |
|--------------------------|---------|----------|--------|--|--------------------------------------|
| FIRST FLOW | | | | | |
| B | 1 | 0.0 | 1471.4 | | |
| | 2 | 3.0 | 1693.4 | 222.0 | |
| <input type="checkbox"/> | 3 | 4.6 | 1927.7 | 234.3 | |
| | 4 | 6.0 | 1838.7 | -89.0 | |
| | 5 | 9.0 | 1733.3 | -105.3 | |
| | 6 | 12.0 | 1729.2 | -4.1 | |
| C | 7 | 14.7 | 1735.5 | 6.3 | |
| FIRST CLOSED-IN | | | | | |
| C | 1 | 0.0 | 1735.5 | | |
| | 2 | 4.0 | 6145.5 | 4410.0 | 3.1 0.671 |
| | 3 | 8.0 | 8094.3 | 6358.8 | 5.2 0.452 |
| | 4 | 12.0 | 8308.5 | 6573.0 | 6.6 0.347 |
| | 5 | 16.0 | 8365.2 | 6629.7 | 7.6 0.283 |
| | 6 | 20.0 | 8388.6 | 6653.1 | 8.5 0.239 |
| | 7 | 24.0 | 8403.2 | 6667.6 | 9.1 0.207 |
| | 8 | 28.0 | 8411.7 | 6676.2 | 9.6 0.183 |
| | 9 | 32.0 | 8420.9 | 6685.4 | 10.1 0.164 |
| | 10 | 36.1 | 8430.1 | 6694.5 | 10.4 0.148 |
| | 11 | 40.0 | 8433.5 | 6698.0 | 10.7 0.136 |
| | 12 | 44.0 | 8439.9 | 6704.3 | 11.0 0.125 |
| | 13 | 48.0 | 8443.7 | 6708.1 | 11.2 0.116 |
| | 14 | 52.0 | 8447.8 | 6712.3 | 11.4 0.108 |
| D | 15 | 57.4 | 8452.2 | 6716.7 | 11.7 0.099 |
| SECOND FLOW | | | | | |
| E | 1 | 0.0 | 1943.1 | | |
| | 2 | 10.0 | 2003.8 | 60.7 | |
| | 3 | 20.0 | 2137.5 | 133.8 | |
| | 4 | 30.0 | 2396.2 | 258.7 | |
| | 5 | 40.0 | 2408.5 | 12.3 | |
| <input type="checkbox"/> | 5 | 40.1 | 2408.5 | 0.0 | |
| | 7 | 50.0 | 2340.7 | -67.8 | |
| | 8 | 60.0 | 2038.2 | -302.5 | |
| F | 9 | 64.7 | 1962.6 | -75.6 | |
| SECOND CLOSED-IN | | | | | |
| F | 1 | 0.0 | 1962.6 | | |
| | 2 | 8.0 | 7581.2 | 5718.6 | 7.2 1.040 |
| | 3 | 16.0 | 7971.0 | 6008.4 | 13.3 0.775 |
| | 4 | 24.0 | 8027.2 | 6064.6 | 18.4 0.634 |
| | 5 | 32.0 | 8063.9 | 6101.3 | 22.8 0.542 |
| | 6 | 40.0 | 8093.7 | 6131.1 | 26.6 0.475 |
| | 7 | 48.0 | 8119.3 | 6156.7 | 29.9 0.424 |
| | 8 | 56.0 | 8138.9 | 6176.3 | 32.8 0.383 |

| REF | MINUTES | PRESSURE | ΔP | $\frac{t \times \Delta t}{t + \Delta t}$ | $\log \frac{t + \Delta t}{\Delta t}$ |
|------------------------------|---------|----------|--------|--|--------------------------------------|
| SECOND CLOSED-IN - CONTINUED | | | | | |
| | 9 | 64.0 | 8157.9 | 6195.3 | 35.4 0.350 |
| | 10 | 72.0 | 8175.9 | 6213.4 | 37.8 0.323 |
| | 11 | 80.0 | 8192.1 | 6229.5 | 39.9 0.299 |
| | 12 | 88.0 | 8204.7 | 6242.2 | 41.7 0.279 |
| | 13 | 96.0 | 8220.3 | 6257.7 | 43.5 0.262 |
| | 14 | 104.0 | 8232.0 | 6269.4 | 45.0 0.246 |
| | 15 | 112.0 | 8243.4 | 6280.8 | 46.4 0.233 |
| G | 16 | 117.9 | 8250.9 | 6288.4 | 47.4 0.224 |

LEGEND:
 CH-CKE CHANGE
 REMARKS: