

BENNETT-CATHEY WIRE LINE SERVICE  
 PHONE (505) 748-3354  
 ARTESIA, NEW MEXICO, 88210

## PRESSURE TRANSIENT TEST DATA

COMPANY: SANTA FE ENERGY  
 LEASE: N H 5 FEDERAL  
 FIELD:  
 COUNTY: LEA  
 STATUS: BOTTOM HOLE PRESSURE BUILD UP TEST

CONTACT: TOMMY FOLSOM  
 WELL: #1  
 ZONE: WOLFCAMP  
 STATE: NEW MEXICO  
 OPERATOR: TONY COLLINS

PERFORATIONS FROM: 10,176.0' TO: 10,192.0'  
 DEPTH: 10,117.0' TEMPERATURE: 254.0°F

ELEMENT: RP63#18323 RANGE: 8575 psig  
 CLOCK: 28660 RANGE: 120 hrs  
 ELEMENT: RP63#9526 RANGE: 8100 psig  
 CLOCK: 27193 RANGE: 72 hrs

## SURFACE PRESSURE MEASUREMENTS

| EVENT        | DATE     | TIME     | DEAD WEIGHT<br>PRESSURE |
|--------------|----------|----------|-------------------------|
| START CLOCK  | 01/11/87 | 10:45:00 | 990.0 psig              |
| SET ELEMENT  | 01/11/87 | 12:53:00 | 992.0 psig              |
| WELL SHUT IN | 01/11/87 | 13:30:00 | 780.0 psig              |
| TEST ENDED   | 01/12/87 | 08:34:00 | 1,060.0 psig            |

## SUBSURFACE PRESSURE MEASUREMENTS

| DATE     | TIME     | t<br>hrs | GAUGE<br>PRESSURE<br>psig | ABSOLUTE<br>PRESSURE<br>psia | RESERVOIR<br>PRESSURE<br>psia |
|----------|----------|----------|---------------------------|------------------------------|-------------------------------|
| 01/11/87 | 12:50:15 | -.662    | 3,575.8                   | 3,589.0                      | 3,609.0                       |
| 01/11/87 | 13:00:00 | -.500    | 3,473.9                   | 3,487.1                      | 3,507.1                       |
| 01/11/87 | 13:15:00 | -.250    | 3,432.4                   | 3,445.6                      | 3,465.6                       |
| 01/11/87 | 13:30:00 | 0.000    | 3,401.6                   | 3,414.8                      | 3,434.8                       |
| 01/11/87 | 13:35:00 | .083     | 3,522.8                   | 3,536.0                      | 3,556.0                       |
| 01/11/87 | 13:40:00 | .167     | 3,569.4                   | 3,582.6                      | 3,602.6                       |
| 01/11/87 | 13:45:00 | .250     | 3,588.6                   | 3,601.8                      | 3,621.8                       |
| 01/11/87 | 13:50:00 | .333     | 3,600.8                   | 3,614.0                      | 3,634.0                       |
| 01/11/87 | 13:55:00 | .417     | 3,608.4                   | 3,621.6                      | 3,641.6                       |
| 01/11/87 | 14:00:00 | .500     | 3,615.7                   | 3,628.9                      | 3,648.9                       |
| 01/11/87 | 14:05:00 | .583     | 3,618.6                   | 3,631.8                      | 3,651.8                       |
| 01/11/87 | 14:10:00 | .667     | 3,621.3                   | 3,634.5                      | 3,654.5                       |
| 01/11/87 | 14:15:00 | .750     | 3,624.1                   | 3,637.3                      | 3,657.3                       |
| 01/11/87 | 14:20:00 | .833     | 3,625.8                   | 3,639.0                      | 3,659.0                       |
| 01/11/87 | 14:25:00 | .917     | 3,627.6                   | 3,640.8                      | 3,660.8                       |
| 01/11/87 | 14:30:00 | 1.000    | 3,629.3                   | 3,642.5                      | 3,662.5                       |
| 01/11/87 | 14:35:00 | 1.083    | 3,631.1                   | 3,644.3                      | 3,664.3                       |
| 01/11/87 | 14:40:00 | 1.167    | 3,632.9                   | 3,646.1                      | 3,666.1                       |
| 01/11/87 | 14:45:00 | 1.250    | 3,634.6                   | 3,647.8                      | 3,667.8                       |
| 01/11/87 | 14:50:00 | 1.333    | 3,636.2                   | 3,649.4                      | 3,669.4                       |
| 01/11/87 | 14:55:00 | 1.417    | 3,637.1                   | 3,650.3                      | 3,670.3                       |
| 01/11/87 | 15:00:00 | 1.500    | 3,638.1                   | 3,651.3                      | 3,671.3                       |

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