

SIDE TWO

Operator Name Carmen Schmitt, Inc. Lease Name Tillofson Well # 1

Sec. 20 Twp. 16 Rge. 28 East West
 County Lane

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

| Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.) | <p style="text-align: center;">Formation Description</p> <p style="text-align: center;"><input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Bottom</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>2135 (+ 603)</td> <td>2170 (+568)</td> </tr> <tr> <td>Heebner Shale</td> <td>3886 (-1148)</td> <td></td> </tr> <tr> <td>Lansing/K.C.</td> <td>3922 (-1184)</td> <td></td> </tr> <tr> <td>Base/K.C.</td> <td>4259 (-1521)</td> <td></td> </tr> <tr> <td>Marmaton</td> <td>4279 (-1541)</td> <td></td> </tr> <tr> <td>Pawnee</td> <td>4366 (-1628)</td> <td></td> </tr> <tr> <td>Ft. Scott</td> <td>4430 (-1692)</td> <td></td> </tr> <tr> <td>Cherokee Shale</td> <td>4453 (-1715)</td> <td></td> </tr> <tr> <td>Mississippian</td> <td>4532 (-1794)</td> <td></td> </tr> <tr> <td>Total Depth</td> <td>4619 (-1881)</td> <td></td> </tr> </tbody> </table> | Name | Top | Bottom | Anhydrite | 2135 (+ 603) | 2170 (+568) | Heebner Shale | 3886 (-1148) | | Lansing/K.C. | 3922 (-1184) | | Base/K.C. | 4259 (-1521) | | Marmaton | 4279 (-1541) | | Pawnee | 4366 (-1628) | | Ft. Scott | 4430 (-1692) | | Cherokee Shale | 4453 (-1715) | | Mississippian | 4532 (-1794) | | Total Depth | 4619 (-1881) | |
|---|---|-------------|-----|--------|-----------|--------------|-------------|---------------|--------------|--|--------------|--------------|--|-----------|--------------|--|----------|--------------|--|--------|--------------|--|-----------|--------------|--|----------------|--------------|--|---------------|--------------|--|-------------|--------------|--|
| Name | Top | Bottom | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anhydrite | 2135 (+ 603) | 2170 (+568) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heebner Shale | 3886 (-1148) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lansing/K.C. | 3922 (-1184) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base/K.C. | 4259 (-1521) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marmaton | 4279 (-1541) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pawnee | 4366 (-1628) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ft. Scott | 4430 (-1692) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cherokee Shale | 4453 (-1715) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mississippian | 4532 (-1794) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Depth | 4619 (-1881) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs./Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
|-------------------|-------------------|---------------------------|-----------------|---------------|----------------|--------------|----------------------------|
| Surface | 12 1/4" | 8-5/8" | 20# | 221' | 60/40poz | 140 | 2% gel 3% cc |
| Production | 7-7/8" | 5 1/2" | 14# | 4620' | EA2 | 175 | 1%CFR-3 |

| Shots Per Foot | Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | Depth |
|----------------|---|--|-------|
| 2 | Cherokee 4500-4510 | 500 gal 15% MCA | 4510 |
| 2 | Ft. Scott 4446-4451 | 500 gal 15% MCA | 4451 |
| 2 | Kansas City "A" 3922-3925 | 750 gal 20% NE | 3925 |

TUBING RECORD Size 2 3/8" Set At 4072 Packer At none Liner Run Yes No

Date of First Production 1-18-91 Producing Method Flowing Pumping Gas Lift Other (Explain)

| | | | | | | | | |
|-----------------------------------|-----|-------|-----|-----|-------|-------|---------------|---------|
| Estimated Production Per 24 Hours | Oil | Bbls. | Gas | Mcf | Water | Bbls. | Gas-Oil Ratio | Gravity |
| | 12 | | | | 25 | | | 28 |

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled

Other (Specify) _____

Production Interval _____

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL Drill-Stem Test Data

| | | | | | |
|-----------------|----------------------------|-------------|-------------|-----------------|----------|
| Well Name & No. | TILLOTSON #1 | Test No. | 1 | Date | 12/11/90 |
| Company | CARMEN SCHMITT | Zone Tested | LANSING | | |
| Address | BOX 47 GREAT BEND KS 67530 | Elevation | 2738 KB' | | |
| Co. Rep./Geo. | MR STEVE PARKER | Cont. | DUKE RIG #4 | Est. Ft. of Pay | 4 |
| Location: Sec. | 20 | Twp. | 16S | Rge. | 22W |
| | | Co. | LANE | State | KANSAS |

| | | | |
|---------------------|-------------------------|-----------------------------|--------------------------------------|
| Interval Tested | 3921-3945 | Drill Pipe Size | 4.5" XH |
| Anchor Length | 24 | Top Choke - 1" | Bottom Choke - 1/4" |
| Top Packer Depth | 3916 | Hole Size - 7 7/8" | Rubber Size - 6 3/4" |
| Bottom Packer Depth | 3921 | Wt. Pipe I.D. - 2.7 Ft. Run | 324 |
| Total Depth | 3941 | Drill Collar - 2.25 Ft. Run | 0 |
| Mud Wt. | 9.0 lb/gal. | Viscosity | 50 |
| | | Filtrate | 9.2 |
| Tool Open @ | 12:25 AM | Initial Blow | OFF BOTTOM IN 2 MINUTES- |
| | | | OFF BOTTOM IN 12 MINUTES INTO SHUTIN |
| Final Blow | OFF BOTTOM IN 4 MINUTES | | |

| | | | |
|----------------------------------|--------|----------------------|--|
| Recovery - Total Feet | 1360 | Flush Tool? | |
| Rec. | 310 | Feet of | GAS IN PIPE |
| Rec. | 380 | Feet of | CLEAN GASSY OIL - 5% GAS / 95% OIL |
| Rec. | 60 | Feet of | OIL SPECKED MUDDY WTR - 5% OIL / 75% WTR / 20% MUD |
| Rec. | 920 | Feet of | GASSY WATER - 2% GAS / 98% WATER |
| Rec. | 0 | Feet of | |
| BHT | 118 °F | Gravity | 31 |
| | | °API @ | 70 |
| | | °F Corrected Gravity | 30 |
| RW | 0.5 @ | 50 °F | Chlorides 20000 ppm Recovery Chlorides 3000 ppm System |
| (A) Initial Hydrostatic Mud | 2043.1 | PSI | AK1 Recorder No. 2023 Range 4000 |
| (B) First Initial Flow Pressure | 101.7 | PSI | @ (depth) 2924 w/Clock No. 27573 |
| (C) First Final Flow Pressure | 374.2 | PSI | AK1 Recorder No. 10248 Range 4400 |
| (D) Initial Shut-In Pressure | 1006.7 | PSI | @ (depth) 3940 w/Clock No. 3942 |
| (E) Second Initial Flow Pressure | 422.4 | PSI | AK1 Recorder No. 0 Range 0 |
| (F) Second Final Flow Pressure | 650.6 | PSI | @ (depth) 0 w/Clock No. 0 |
| (G) Final Shut-In Pressure | 985.5 | PSI | Initial Opening 30 |
| (H) Final Hydrostatic Mud | 2036.0 | PSI | Initial Shut-In 45 |
| | | | Final Flow 60 |
| | | | Final Shut-In 45 |

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CONSERVATION DIVISION
Wichita, Kansas

MR MARK HERSKOWITZ

850

Our Representative _____

TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

| | | | | | |
|-----------------|----------------------------|-------------|-------------|-----------------|----------|
| Well Name & No. | TILLOTSON #1 | Test No. | 2 | Date | 12/13/90 |
| Company | CARMEN SCHMITT | Zone Tested | KS CITY | | |
| Address | BOX 47 GREAT BEND KS 67530 | Elevation | 2738 KB | | |
| Co. Rep./Geo. | MR STEVE PARKER | Cont. | DUKE RIG #4 | Est. Ft. of Pay | 0 |
| Location: Sec. | 20 | Twp. | 16S | Rge. | 22W |
| Co. | LANE | State | KANSAS | | |

Interval Tested 4086-4177 Drill Pipe Size 4.5" XH
Anchor Length 91 Top Choke — 1" Bottom Choke — 1/4"
Top Packer Depth 4081 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth 4086 Wt. Pipe I.D. — 2.7 Ft. Run 324
Total Depth 4177 Drill Collar — 2.25 Ft. Run 0
Mud Wt. 9.2 lb/gal. Viscosity 53 Filtrate 9.6
Tool Open @ 4:03 AM Initial Blow OFF BOTTOM IN 3 MINUTES

Final Blow OFF BOTTOM IN 5 MINUTES

Recovery — Total Feet 1240 Flush Tool? _____
Rec. 490 Feet of WATERY MUD-20%WTR/80%MUD
Rec. 750 Feet of MUDDY WATER-90%WTR/10%MUD
Rec. 0 Feet of _____
Rec. 0 Feet of _____
Rec. 0 Feet of _____

BHT 122 °F Gravity _____ °API @ 0 °F Corrected Gravity 0 °API
RW 0.6 °F Chlorides 18000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 2141.3 PSI AK1 Recorder No. 2023 Range 4000
(B) First Initial Flow Pressure 45.6 PSI @ (depth) 4088 w/Clock No. 27573
(C) First Final Flow Pressure 422.7 PSI AK1 Recorder No. 10248 Range 4400
(D) Initial Shut-In Pressure 864.5 PSI @ (depth) 4172 w/Clock No. 3942
(E) Second Initial Flow Pressure 463.2 PSI AK1 Recorder No. 0 Range 0
(F) Second Final Flow Pressure 621.2 PSI @ (depth) 0 w/Clock No. 0
(G) Final Shut-In Pressure 864.5 PSI Initial Opening 30
(H) Final Hydrostatic Mud 2080.7 PSI Initial Shut-In 45
Final Flow 30
Final Shut-In 45

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ORIGINAL

Drill-Stem Test Data

| | | | | | | | | | |
|-----------------|----------------------------|-------------|---------------|-----------------|----------|-----|------|-------|--------|
| Well Name & No. | TILLOTSON #1 | Test No. | 3 | Date | 12/13/90 | | | | |
| Company | CARMEN SCHMITT | Zone Tested | KS CITY "K&L" | | | | | | |
| Address | BOX 47 GREAT BEND KS 67530 | Elevation | 2738 KB | | | | | | |
| Co. Rep./Geo. | MR STEVE PARKER | Cont. | DUKE RIG #4 | Est. Ft. of Pay | 0 | | | | |
| Location: Sec. | 20 | Twp. | 16S | Rge. | 22W | Co. | LANE | State | KANSAS |

| | | | | | | |
|---------------------|-----------|-----------------------------|-------------------------|----|----------|-----|
| Interval Tested | 4182-4275 | Drill Pipe Size | 4.5" XH | | | |
| Anchor Length | 93 | Top Choke — 1" | Bottom Choke — 1/4" | | | |
| Top Packer Depth | 4177 | Hole Size — 7 7/8" | Rubber Size — 6 3/4" | | | |
| Bottom Packer Depth | 4182 | Wt. Pipe I.D. — 2.7 Ft. Run | 324 | | | |
| Total Depth | 4275 | Drill Collar — 2.25 Ft. Run | 0 | | | |
| Mud Wt. | 9.4 | lb/gal. | Viscosity | 52 | Filtrate | 9.6 |
| Tool Open @ | 11:07 PM | Initial Blow | OFF BOTTOM IN 4 MINUTES | | | |

Final Blow OFF BOTTOM IN 7 MINUTES

| | | | |
|-----------------------|-----|-------------|---|
| Recovery — Total Feet | 950 | Flush Tool? | |
| Rec. | 280 | Feet of | OIL SPOTTED WTR CUT MUD - 45%WTR/55%MUD/5%OIL |
| Rec. | 670 | Feet of | MUDDY WATER - 75%WATER/25%MUD |
| Rec. | 0 | Feet of | |
| Rec. | 0 | Feet of | |
| Rec. | 0 | Feet of | |

| | | | | | | | | | | |
|----------------------------------|--------|-----|------------------|--------|-------------|----------|-------------------|------|------|--------|
| BHT | 124 | °F | Gravity | °API @ | 0 | °F | Corrected Gravity | 0 | °API | |
| RW | 0.2 | °F | Chlorides | 32000 | ppm | Recovery | Chlorides | 6000 | ppm | System |
| (A) Initial Hydrostatic Mud | 2131.4 | PSI | AK1 Recorder No. | 2023 | Range | 4000 | | | | |
| (B) First Initial Flow Pressure | 34.5 | PSI | @ (depth) | 4184 | w/Clock No. | 27573 | | | | |
| (C) First Final Flow Pressure | 271.5 | PSI | AK1 Recorder No. | 10248 | Range | 4400 | | | | |
| (D) Initial Shut-in Pressure | 891.2 | PSI | @ (depth) | 4270 | w/Clock No. | 3942 | | | | |
| (E) Second Initial Flow Pressure | 290.6 | PSI | AK1 Recorder No. | 0 | Range | 0 | | | | |
| (F) Second Final Flow Pressure | 431.2 | PSI | @ (depth) | 0 | w/Clock No. | 0 | | | | |
| (G) Final Shut-in Pressure | 861.2 | PSI | Initial Opening | 30 | | | | | | |
| (H) Final Hydrostatic Mud | 2110.3 | PSI | Initial Shut-in | 45 | | | | | | |
| | | | Final Flow | 30 | | | | | | |
| | | | Final Shut-in | 45 | | | | | | |

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Drill-Stem Test Data

ORIGINAL

| | | | | | | | | | |
|-----------------|----------------------------|-------------|-------------|-----------------|----------|-----|------|-------|--------|
| Well Name & No. | TILLOTSON #1 | Test No. | 4 | Date | 12/14/90 | | | | |
| Company | CARMEN SCHMITT | Zone Tested | MARM-PAWNEE | | | | | | |
| Address | BOX 47 GREAT BEND KS 67530 | Elevation | 2738 KB | | | | | | |
| Co. Rep./Geo. | MR STEVE PARKER | Cont. | DUKE RIG #4 | Est. Ft. of Pay | 0 | | | | |
| Location: Sec. | 20 | Twp. | 16S | Rge. | 22W | Co. | LANE | State | KANSAS |

| | | | | | | |
|---------------------|-----------|-----------------------------|--|----|----------|------|
| Interval Tested | 4257-4390 | Drill Pipe Size | 4.5" XH | | | |
| Anchor Length | 133 | Top Choke — 1" | Bottom Choke — 1/4" | | | |
| Top Packer Depth | 4252 | Hole Size — 7 7/8" | Rubber Size — 6 3/4" | | | |
| Bottom Packer Depth | 4257 | Wt. Pipe I.D. — 2.7 Ft. Run | 0 | | | |
| Total Depth | 4390 | Drill Collar — 2.25 Ft. Run | 0 | | | |
| Mud Wt. | 9.6 | lb/gal. | Viscosity | 4B | Filtrate | 12.0 |
| Tool Open @ | 7:14 PM | Initial Blow | WEAK BLOW BUILDING TO 2" IN 45 MINUTES | | | |

Final Blow NO BLOW

| | | | |
|-----------------------|----|-------------|-----|
| Recovery — Total Feet | 40 | Flush Tool? | |
| Rec. | 40 | Feet of | MUD |
| Rec. | 0 | Feet of | |
| Rec. | 0 | Feet of | |
| Rec. | 0 | Feet of | |
| Rec. | 0 | Feet of | |

BHT 118 °F Gravity _____ °API @ 0 °F Corrected Gravity 0 °API

RW _____ °F Chlorides _____ ppm Recovery Chlorides 6000 ppm System

| | | | | | | |
|----------------------------------|--------|-----|------------------|-------|-------------|-------|
| (A) Initial Hydrostatic Mud | 2184.5 | PSI | AK1 Recorder No. | 2023 | Range | 4000 |
| (B) First Initial Flow Pressure | 12.3 | PSI | @ (depth) | 4259 | w/Clock No. | 27573 |
| (C) First Final Flow Pressure | 24.6 | PSI | AK1 Recorder No. | 10248 | Range | 4400 |
| (D) Initial Shut-In Pressure | 541.2 | PSI | @ (depth) | 4385 | w/Clock No. | 27594 |
| (E) Second Initial Flow Pressure | 24.6 | PSI | AK1 Recorder No. | 0 | Range | 0 |
| (F) Second Final Flow Pressure | 24.6 | PSI | @ (depth) | 0 | w/Clock No. | 0 |
| (G) Final Shut-In Pressure | 410.2 | PSI | Initial Opening | 45 | | |
| (H) Final Hydrostatic Mud | 2150.6 | PSI | Initial Shut-In | 45 | | |
| | | | Final Flow | 15 | | |
| | | | Final Shut-In | 45 | | |

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P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

| | | | | | |
|-----------------|----------------------------|-------------|-----------------|-----------------|----------|
| Well Name & No. | TILLOTSON #1 | Test No. | 5 | Date | 12/15/90 |
| Company | CARMEN SCHMITT | Zone Tested | FT SCOTT & MISS | | |
| Address | BOX 47 GREAT BEND KS 67530 | Elevation | 2738 KB | | |
| Co. Rep./Geo. | MR STEVE PARKER | Cont. | DUKE RIG #4 | Est. Ft. of Pay | 0 |
| Location: Sec. | 20 | Twp. | 16S | Rge. | 22W |
| | | Co. | LANE | State | KANSAS |

| | | | |
|---------------------|---|-----------------------------|---|
| Interval Tested | 4418-4530 | Drill Pipe Size | 4.5" XH |
| Anchor Length | 112 | Top Choke — 1" | Bottom Choke — 1/4" |
| Top Packer Depth | 4413 | Hole Size — 7 7/8" | Rubber Size — 6 3/4" |
| Bottom Packer Depth | 4418 | Wt. Pipe I.D. — 2.7 Ft. Run | 320 |
| Total Depth | 4530 | Drill Collar — 2.25 Ft. Run | 0 |
| Mud Wt. | 9.8 | lb/gal. | Viscosity 53 Filtrate 14.4 |
| Tool Open @ | 3:51 PM | Initial Blow | WEAK BLOW OFF BOTTOM OF BUCKET IN 17 MINUTES-SURFACE BLOW ON SHUTIN |
| Final Blow | OFF BOTTOM IN 22 MINUTES-SURFACE BLOW ON SHUTIN | | |

| | | | |
|----------------------------------|--------|----------------------|---|
| Recovery — Total Feet | 340 | Flush Tool? | |
| Rec. | 400 | Feet of | GAS IN PIPE |
| Rec. | 40 | Feet of | GAS CUT OIL-5%GAS/95%OIL |
| Rec. | 120 | Feet of | GSY MUD CUT OIL-5%GAS/85%OIL/10%MUD |
| Rec. | 180 | Feet of | GSY OIL & WTR CUT MUD-5%GAS/5%OIL/40%WTR/50%MUD |
| Rec. | 0 | Feet of | |
| BHT | 118 | %F Gravity | 34 |
| | | %API @ | 70 |
| | | %F Corrected Gravity | 33 |
| RW | 0.5 | %F Chlorides | 22000 ppm Recovery Chlorides 6000 ppm System |
| (A) Initial Hydrostatic Mud | 2284.0 | PSI | AK1 Recorder No. 2023 Range 4000 |
| (B) First Initial Flow Pressure | 37.5 | PSI | @ (depth) 4420 w/Clock No. 27573 |
| (C) First Final Flow Pressure | 68.1 | PSI | AK1 Recorder No. 10248 Range 4400 |
| (D) Initial Shut-in Pressure | 1078.1 | PSI | @ (depth) 4525 w/Clock No. 31152 |
| (E) Second Initial Flow Pressure | 103.2 | PSI | AK1 Recorder No. 0 Range 0 |
| (F) Second Final Flow Pressure | 147.8 | PSI | @ (depth) 0 w/Clock No. 0 |
| (G) Final Shut-in Pressure | 1085.4 | PSI | Initial Opening 30 |
| (H) Final Hydrostatic Mud | 2190.0 | PSI | Initial Shut-in 45 |
| | | | Final Flow 60 |
| | | | Final Shut-in 60 |

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TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

| | | | | | |
|-----------------|----------------------------|-------------|-------------|-----------------|----------|
| Well Name & No. | TILLOTSON #1 | Test No. | 6 | Date | 12/16/90 |
| Company | CARMEN SCHMITT | Zone Tested | MISSISSIPPI | | |
| Address | BOX 47 GREAT BEND KS 67530 | Elevation | 2738 KB | | |
| Co. Rep./Geo. | MR STEVE PARKER | Cont. | DUKE RIG #4 | Est. Ft. of Pay | 0 |
| Location: Sec. | 20 | Twp. | 16S | Rge. | 22W |
| Co. | LANE | State | KANSAS | | |

| | | | | | | |
|---------------------|-------------------------|-----------------------------|-------------------------------|----|----------|------|
| Interval Tested | 4556-4580 | Drill Pipe Size | 4.5" XH | | | |
| Anchor Length | 24 | Top Choke — 1" | Bottom Choke — 1/4" | | | |
| Top Packer Depth | 4551 | Hole Size — 7 7/8" | Rubber Size — 6 3/4" | | | |
| Bottom Packer Depth | 4556 | Wt. Pipe I.D. — 2.7 Ft. Run | 320 | | | |
| Total Depth | 4580 | Drill Collar — 2.25 Ft. Run | 0 | | | |
| Mud Wt. | 9.7 | lb/gal. | Viscosity | 50 | Filtrate | 14.4 |
| Tool Open @ | 9:23 AM | Initial Blow | WEAK BLOW BUILDING TO 4.5" IN | | | |
| | 30 MINUTES | | | | | |
| Final Blow | BLOW 3.5" IN 45 MINUTES | | | | | |

| | | | | | | | | | |
|----------------------------------|--------|-------------|-----------------------------|--------------|-------------|----------------------|-----------|------|------------|
| Recovery — Total Feet | 180 | Flush Tool? | | | | | | | |
| Rec. | 60 | Feet of | GAS IN PIPE | | | | | | |
| Rec. | 30 | Feet of | CLEAN OIL | | | | | | |
| Rec. | 150 | Feet of | MUDDY WATER-65%WATER/35%MUD | | | | | | |
| Rec. | 0 | Feet of | | | | | | | |
| Rec. | 0 | Feet of | | | | | | | |
| BHT | 118 | °F Gravity | 36 | °API @ | 70 | °F Corrected Gravity | 35 | °API | |
| RW | 1.0 | °F | 50 | °F Chlorides | 10000 | ppm Recovery | Chlorides | 6000 | ppm System |
| (A) Initial Hydrostatic Mud | 2344.5 | PSI | AK1 Recorder No. | 2023 | Range | 4000 | | | |
| (B) First Initial Flow Pressure | 12.6 | PSI | @ (depth) | 4558 | w/Clock No. | 27573 | | | |
| (C) First Final Flow Pressure | 45.9 | PSI | AK1 Recorder No. | 10248 | Range | 4400 | | | |
| (D) Initial Shut-In Pressure | 1121.3 | PSI | @ (depth) | 4575 | w/Clock No. | 31152 | | | |
| (E) Second Initial Flow Pressure | 70.8 | PSI | AK1 Recorder No. | 0 | Range | 0 | | | |
| (F) Second Final Flow Pressure | 101.2 | PSI | @ (depth) | 0 | w/Clock No. | 0 | | | |
| (G) Final Shut-In Pressure | 1074.6 | PSI | Initial Opening | 30 | | | | | |
| (H) Final Hydrostatic Mud | 2289.7 | PSI | Initial Shut-in | 45 | | | | | |
| | | | Final Flow | 45 | | | | | |
| | | | Final Shut-in | 45 | | | | | |

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MR MARK HERSKOWITZ

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Our Representative _____

TOTAL PRICE \$ _____

483-2627, Russell, Kansas
 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ORIGINAL

ALLIED CEMENTING CO., INC. No. **7219**
 Russell, Kansas 67665
 Home Office P. O. Box 31

New

| | | | | | | | | | | | | | | | |
|------------------------|-----------------------|------|------------|-----------------------------|----|-------|--------|------------|------|-------------|---------|-----------|---------|--------|------|
| Date | 1-8-90 | Sec. | 20 | Twp. | 16 | Range | 28 | Called Out | 8 AM | On Location | 9:15 AM | Job Start | 4:30 PM | Finish | 6 PM |
| Case | Tilloton | | Well No. | Shields 2 1/2 N W into Lane | | | County | State | | ks | | | | | |
| Contractor | Cheyenne Well Service | | | | | | | | | | | | | | |
| Type Job | Port Collar | | | | | | | | | | | | | | |
| Core Size | 5 1/2 | | T.D. | 4568 | | | | | | | | | | | |
| Log | 2 1/2 | | Depth | | | | | | | | | | | | |
| Log Size | | | Depth | | | | | | | | | | | | |
| Drill Pipe | R.P. Plug | | Depth | 3400 | | | | | | | | | | | |
| Tool | Reinhardt | | Depth | 2168 | | | | | | | | | | | |
| Equipment Left in Csg. | | | Shoe Joint | | | | | | | | | | | | |
| Pressure Max. | | | Minimum | | | | | | | | | | | | |
| Pressure Line | | | Displace | 12.79 | | | | | | | | | | | |
| Ref. | Port collar 2168 | | | | | | | | | | | | | | |

Owner *Same*
 To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.
 Charge To *Carmen Schmidt*
 Street *Box 47*
 City *Great Bend* State *Ks* *67530*
 The above was done to satisfaction and supervision of owner, agent, or contractor

Purchase Order No. *X Carmen Schmidt*
CEMENT
 Amount Ordered *500 50 8 1/2 gal*

EQUIPMENT

| | | |
|-----------|-------------|-------------|
| No. | Cementer | <i>Byrd</i> |
| mptrk 158 | Helper | <i>Byrd</i> |
| No. | Cementer | <i>Byrd</i> |
| mptrk | Helper | |
| Driver | <i>Byrd</i> | |
| 199 | Driver | |

| | |
|---------------|-------------------------|
| Consisting of | <i>Used 452 sks</i> |
| Common | <i>226 5.25 1186.50</i> |
| Poz. Mix | <i>226 2.25 508.50</i> |
| Gel. | <i>36 6.75 243.00</i> |
| Chloride | |
| Quickset | |
| Sales Tax | |

| | | |
|-------------------|--------------------|---------------|
| DEPTH of Job | | |
| Reference: | <i>Pump trucks</i> | <i>475.00</i> |
| <i>42 mileage</i> | | <i>84.00</i> |
| Sub Total | | <i>559.00</i> |
| Tax | | |
| Total | | <i>559.00</i> |

| | | | |
|-----------|------------|-------------|----------------|
| Handling | <i>500</i> | <i>1.00</i> | <i>500.00</i> |
| Mileage | <i>42</i> | | <i>840.00</i> |
| Sub Total | | | <i>1340.00</i> |
| Total | | | <i>3278.00</i> |

Test R Plug 1000# @ 11
Cement did Circ
Buy Shopper
Allied Cementing

Floating Equipment
TOTAL \$ 3837.00
Disc - 767.40
RECEIVED \$ 3069.60
 STATE CORPORATION COMMISSION
 APR 18 1991
 CONSERVATION DIVISION
 Wichita, Kansas