



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

**PRESSURE PUMPING**

**Job Log**

|                    |                            |                  |                       |                   |                    |                  |
|--------------------|----------------------------|------------------|-----------------------|-------------------|--------------------|------------------|
| Customer:          | Berexco LLC                | Cement Pump No.: | 38117, 19919 11Hrs.   | Operator TRK No.: | 96816              |                  |
| Address:           | 2020 N. Bramblewood        | Ticket #:        | 1718 19675 L          | Bulk TRK No.:     | 27808, 19578 Oscar | 30464, 37547 Sam |
| City, State, Zip:  | Wichita, Kansas 67206-1094 | Job Type:        | Z-42 Cement Two-Stage |                   |                    |                  |
| Service District:  | 1718 - Liberal, Ks.        | Well Type:       |                       |                   |                    |                  |
| Well Name and No.: | MRM #1                     | Well Location:   | 15 - 10S - 33W        | County:           | Thomas             | State: Kansas    |

| Type of Cmt | Sacks | Additives   | Truck Loaded On    |       |      |
|-------------|-------|---|--------------------|-------|------|
| A-Serv Lite | 125   | 1/4# Polyflake  | 27808, 19578 Oscar | Front | Back |
| AA2 Cement  | 225   | 10% Gypsum, 10% SALT, 6pps Gilsonite, .5% C-17, 1/2# Defoamer | 30464, 37547 Sam   | Front | Back |
| A-Serv Lite | 525   | 1/4# Polyflake  | 37712, 19883 Corey | Front | Back |
| Rat & Mouse | 50    |   | 27808, 19578 Oscar | Front | Back |

| Lead/Tail:     | Weight #1 Gal. | Cu/Ft/sk | Water Requirements | CU. FT. | Man Hours / Personnel |     |
|----------------|----------------|----------|--------------------|---------|-----------------------|-----|
| <b>Lead:</b>   | 13             | 1.73     | 9.08               | 216.25  | TT Man Hours:         | 105 |
| <b>Tail:</b>   | 15             | 1.46     | 6.16               | 328.5   |                       |     |
| <b>Tail 2:</b> | 13             | 1.73     | 9.08               | 908.25  |                       |     |
|                |                |          |                    |         | # of Men on Job:      | 5   |

| Time (am/pm) | BPM | Volume (BBLs) | Pumps |   | Pressure (PSI) |        | Description of Operation and Materials |
|--------------|-----|---------------|-------|---|----------------|--------|--|
|              |     |               | T     | C | Tubing         | Casing |  |
| 15:00        |     |               |       |   |                |        | ON LOCATION & SAFETY MEETING           |
| 0:30         |     |               |       |   |                |        | RUN FLOAT EQUIPMENT                    |
| 2:30 AM      |     |               |       |   |                |        | RIG UP                                 |
| 3:20 AM      |     |               |       |   |                |        | RIG TO CIRCULATE                       |
| 5:15 AM      |     |               |       |   |                |        | RIG TO PT                              |
| 5:21         | 5.5 | 38.5 slurry   |       |   |                | 160    | PUMP 125SX LEAD @ 13#                  |
| 5:30         | 5.3 | 58.5 slurry   |       |   |                | 150    | PUMP 225SX TAIL @ 15#                  |
| 5:50         |     |               |       |   |                |        | SHUTDOWN / DROP PLUG / WP              |
| 5:59         | 5.8 | 10            |       |   |                | 120    | DISPLACE W/ H2O                        |
|              | 5.8 | 20            |       |   |                | 120    |  |
|              | 5.8 | 30            |       |   |                | 120    |  |
|              | 5.8 | 40            |       |   |                | 120    |  |
|              | 4.4 | 47            |       |   |                | 90     | DISPLACE W/ MUD                        |
|              | 6.8 | 60            |       |   |                | 160    |  |
|              | 6.1 | 70            |       |   |                | 300    |  |
|              | 5.7 | 80            |       |   |                | 480    |  |
|              | 5.7 | 90            |       |   |                | 550    |  |
|              | 5.7 | 100           |       |   |                | 740    |  |
| 6:20         | 5.7 | 101           |       |   |                | 760    | SLOW RATE TO 2.0BPM @ 610PSI           |
|              | 1.9 | 110           |       |   |                | 710    |  |

|                  |              |                  |          |         |       |          |                |  |
|------------------|--------------|------------------|----------|---------|-------|----------|----------------|--|
| Size Hole        | 7 7/8"       | Depth            |          |         |       | TYPE     | Plug Container |  |
| Size & Wt. Csg.  | 5 1/2" 15.5# | Depth            | 4745'    | DV Tool | 2677' | Packer   | Depth          |  |
| Landing Press. 1 | 861.3psi     | Landing Press. 2 | 648.6psi |         |       | Retainer | Depth          |  |
| Shoe Jt.         | 74'          | Type             |          |         |       | Perfs    | CIBP           |  |

|                              |                       |                    |
|------------------------------|-----------------------|--------------------|
| Customer Signature: <i>X</i> | Basic Representative: | Daniel Beck        |
|                              | Basic Signature:      | <i>Daniel Beck</i> |
|                              | Date of Service:      | 10/5/2019          |

