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|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | Altavista Energy, Inc. |
| Well Name | SAUDER 23 |
| Doc ID | 1834971 |

Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | Number of Sacks Used | Type and Percent Additives |
|-------------------|-------------------|-----------------|--------|---------------|----------------|----------------------|----------------------------|
| Surface | 9.875 | 7 | 15 | 63 | Thixo | 30 | See Ticket |
| Production | 5.875 | 2.875 | 6.5 | 1093 | Thixo | 100 | See Ticket |
| | | | | | | | |
| | | | | | | | |

McGOWN

DRILLING, INC.

Mound City, KS

620.224.7406

| Well # | | | | | Casing | | | |
|--------------------------------|----------------|--------------|------------|--------------------|---------|--|----------------|------------|
| Altavista Energy Sauder #23 | | | | | Surface | | Longstring | |
| | | | | | Size: | 7 " | Size: | 2 7/8 " |
| | | | | | Tally: | 63.0 ' | Tally: | 1092.5 ' |
| | | | | | Cement: | HSI sx | Bit: | 5 7/8 " |
| County: | Coffey Co., KS | Date: | 12/23/2024 | | Bit: | 9 7/8 " | Date: | 12/26/2024 |
| Top | Base | Formation | | Top | Base | Formation | | |
| 0 | 2 | soil | | 947 | 979 | shale | | |
| 2 | 39 | clay | | 979 | 983 | lime | | |
| 39 | 45 | gravel | | 983 | 1014 | shale | | |
| 45 | 230 | shale | | 1014 | 1015 | lime | cap | |
| 230 | 253 | lime | | 1015 | 1017 | shale | | |
| 253 | 256 | shale | | 1017 | 1019 | lime | cap | |
| 256 | 280 | lime | | 1019 | 1024 | sand | | |
| 280 | 376 | shale | | 1024 | | sandy shale | | |
| 376 | 393 | lime | | | | | | |
| 393 | 405 | shale | | | | | | |
| 405 | 408 | lime | | | | | | |
| 408 | 410 | shale | | | | | | |
| 410 | 411 | lime | | | | | | |
| 411 | 420 | shale | | | | | | |
| 420 | 425 | lime | | | | | | |
| 425 | 447 | limy shale | | | | | | |
| 447 | 487 | lime | | | | | | |
| 487 | 496 | shale | | Float Equipment | | | | |
| 496 | 506 | lime | | Qty | Size | | | |
| 506 | 520 | shale | | 1 | 2 7/8 | Float Shoe | | |
| 520 | 530 | limy shale | | 1 | 2 7/8 | Aluminum Baffle | set at 1060.25 | |
| 530 | 550 | shale | | 3 | 2 7/8 | Centralizers | | |
| 550 | 597 | lime | | 1 | 2 7/8 | Casing clamp | | |
| 597 | 616 | shale | | | | | | |
| 616 | 633 | lime | | Sand / Core Detail | | | | |
| 633 | 635 | shale | | Core #1: | | Core #2: | | |
| 635 | 653 | lime | | Core #3: | | Core #4: | | |
| 653 | 810 | shale | Big Shale | 1019 | 1024 | good odor. Good bleed, slightly broken | | |
| 810 | 823 | lime | | | | | | |
| 823 | 833 | shale | | | | | | |
| 833 | 841 | lime | | | | | | |
| 841 | 851 | shale | | | | | | |
| 851 | 854 | lime | | | | | | |
| 854 | 899 | shale | | | | | | |
| 899 | 903 | lime | | | | | | |
| 903 | 946 | shale | | | | | | |
| 946 | 947 | lime | | | | | | |
| | | Total Depth: | | 1095 | | | | |

[illegible]

**CEMENT TREATMENT REP(**

| | | | | | |
|--------------|------------------|---------|-----------------|----------|--------------|
| Customer: | Altavista Energy | Well: | Sauder #23, #20 | Ticket: | EP16143 |
| City, State: | | County: | CF, KS | Date: | 12/26/2024 |
| Field Rep: | Bryan Miller | S-T-R: | 14-22-16 | Service: | LS & surface |

| Downhole Information | | Calculated Slurry - Lead | | Calculated Slurry - Tail | |
|----------------------|----------|--------------------------|---------------------------|--------------------------|----------------------|
| Hole Size: | 5 5/8 in | Blend: | Thixo 1#PS | Blend: | |
| Hole Depth: | 1095 ft | Weight: | 13.7 ppg | Weight: | ppg |
| Casing Size: | 2 7/8 in | Water / Sx: | 8.9 gal / sx | Water / Sx: | gal / sx |
| Casing Depth: | 1092 ft | Yield: | 1.83 ft ³ / sx | Yield: | ft ³ / sx |
| Tubing / Liner: | in | Annular Bbls / Ft.: | bbs / ft. | Annular Bbls / Ft.: | bbs / ft. |
| Depth: | ft | Depth: | ft | Depth: | ft |
| Tool / Packer: | Baffle | Annular Volume: | 0.0 bbls | Annular Volume: | 0 bbls |
| Tool Depth: | 1060 ft | Excess: | | Excess: | |
| Displacement: | 6.1 bbls | Total Slurry: | bbls | Total Slurry: | 0.0 bbls |
| | | Total Sacks: | sx | Total Sacks: | 0 sx |

| TIME | RATE | PSI | BBLs | TOTAL BBLs | REMARKS |
|---------|------|-------|------|------------|---|
| 6:30 PM | | | - | - | On location Held safety meeing |
| | | | | - | |
| | | | | - | |
| | | | | - | #23 |
| | 4.0 | | | - | Established circulation with fresh water |
| | 4.0 | | | - | Mixed and pumped 200# of bentonite gel followed by 4 BBL of fresh water |
| | 4.0 | 250.0 | | - | Mixed and pumped 100 sks of Thixo cement with 1# PS, Cement to surface |
| | 4.0 | | | - | Flushed pump and line clean |
| | 4.0 | 250.0 | | - | Displaced 2 7/8" rubber plug with 6.2 BBL of fresh water |
| | 1.0 | 800.0 | | - | Pressured up well to 800PSI and shut in, well held pressure |
| | | | | - | Released pressure to set float valve |
| | 4.0 | | | | Washed up equipment and moved |
| | | | | | |
| | | | | | #20 Rig set 50' of surface pipe |
| | | | | | Hooked to surface and established rate |
| | | | | | Mixed and pumped 25sks of thixo cement with 1#PS, |
| | | | | | Displaced cement with 1.5 BBL of water, shut in casing |
| | | | | | Washed up equipment |
| | | | | | |
| 7:30 PM | | | | | Left location |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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| CREW | | UNIT | SUMMARY | | |
|----------------|------------|------|--------------|------------------|-------------|
| Cementer: | Garrett S. | 248 | Average Rate | Average Pressure | Total Fluid |
| Pump Operator: | Nick B | 209 | 3.6 bpm | 433 psi | - bbls |
| Bulk #1: | Sam B | 110 | | | |
| Bulk #2: | Logan W | | | | |