

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1234041

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

| OPERATOR: License # | | | API No. 15 | | | | | | |
|--|------------------|----------------------|--------------------------------|----------------------------|-----------------------|--|--|--|--|
| Name: | | | Spot Description: | | | | | | |
| Address 1: | | | Sec. | TwpS. R | East _ West | | | | |
| Address 2: | | | F6 | eet from | South Line of Section | | | | |
| City: S | tate: Zi | p:+ | Fe | eet from East / V | West Line of Section | | | | |
| Contact Person: | | | Footages Calculated from | Nearest Outside Section Co | orner: | | | | |
| Phone: () | | | □ NE □ NV | V □SE □SW | | | | | |
| CONTRACTOR: License # | | | GPS Location: Lat: | , Long: | | | | | |
| Name: | | | | (e.g. xx.xxxxx) | (e.gxxx.xxxxx) | | | | |
| Wellsite Geologist: | | | Datum: NAD27 | NAD83 WGS84 | | | | | |
| Purchaser: | | | County: | | | | | | |
| Designate Type of Completion: | | | Lease Name: | We | ell #: | | | | |
| New Well Re | -Entry | Workover | Field Name: | | | | | | |
| | _ | _ | Producing Formation: | | | | | | |
| ☐ Oil ☐ WSW ☐ D&A | ☐ SWD | ∐ SIOW □ SIGW | Elevation: Ground: | Kelly Bushing: _ | | | | | |
| ☐ OG | GSW | Temp. Abd. | Total Vertical Depth: | Plug Back Total De | epth: | | | | |
| CM (Coal Bed Methane) | dow | iemp. Abd. | Amount of Surface Pipe Se | et and Cemented at: | Feet | | | | |
| Cathodic Other (Con | e. Expl., etc.): | | Multiple Stage Cementing | Collar Used? Yes | No | | | | |
| If Workover/Re-entry: Old Well In | | | If yes, show depth set: | | Feet | | | | |
| Operator: | | | If Alternate II completion, of | cement circulated from: | | | | | |
| Well Name: | | | feet depth to: | w/ | sx cmt. | | | | |
| Original Comp. Date: | Original To | otal Depth: | | | | | | | |
| Deepening Re-perf. | Conv. to E | NHR Conv. to SWD | Drilling Fluid Manageme | nt Plan | | | | | |
| ☐ Plug Back | Conv. to G | SW Conv. to Producer | (Data must be collected from t | | | | | | |
| O constitued and | D | | Chloride content: | ppm Fluid volume: | bbls | | | | |
| CommingledDual Completion | | | Dewatering method used: | | | | | | |
| SWD | | | Location of fluid disposal if | f haulad offsita: | | | | | |
| ☐ ENHR | | | Location of fluid disposal fi | nauled offsite. | | | | | |
| GSW | | | Operator Name: | | | | | | |
| _ | | | Lease Name: | License #: | | | | | |
| Spud Date or Date Rea | ached TD | Completion Date or | QuarterSec | TwpS. R | East _ West | | | | |
| Recompletion Date | | Recompletion Date | County: | Permit #: | | | | | |

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

| KCC Office Use ONLY |
|---------------------------------|
| Confidentiality Requested |
| Date: |
| Confidential Release Date: |
| Wireline Log Received |
| Geologist Report Received |
| UIC Distribution |
| ALT I II III Approved by: Date: |



| Operator Name: | | | Lease Name: _ | : Well #: | | | | | | | |
|---|-----------------------------|---|--------------------------|---|----------------------|---------------------------------|-------------------------------|--|--|--|--|
| Sec Twp | S. R | East West | County: | | | | | | | | |
| open and closed, flow | ring and shut-in pressu | ormations penetrated. Eures, whether shut-in predict final chart(s). Attach | essure reached stati | c level, hydrosta | atic pressures, bott | | | | | | |
| | | otain Geophysical Data a or newer AND an image | | ogs must be ema | ailed to kcc-well-lo | gs@kcc.ks.go | v. Digital electronic log | | | | |
| Drill Stem Tests Taken (Attach Additional S | | Yes No | | | on (Top), Depth an | | Sample | | | | |
| Samples Sent to Geol | logical Survey | Yes No | Nam | е | | Тор | Datum | | | | |
| Cores Taken Electric Log Run | | Yes No | | | | | | | | | |
| List All E. Logs Run: | | | | | | | | | | | |
| | | CASING | RECORD Ne | ew Used | | | | | | | |
| | | | conductor, surface, inte | | ion, 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 | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | ADDITIONAL | CEMENTING / SQL | JEEZE RECORD | | | | | | | |
| Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone | Depth Top Bottom | Type of Cement | # Sacks Used | | Type and P | pe and Percent Additives | | | | | |
| Did you perform a hydrau | ulic fracturing treatment o | n this well? | | Yes | No (If No, ski | p questions 2 aı | nd 3) | | | | |
| Does the volume of the to | otal base fluid of the hydr | aulic fracturing treatment ex | _ | = : | No (If No, ski | p question 3) out Page Three | | | | | |
| Shots Per Foot | PERFORATIO Specify F | N RECORD - Bridge Plug ootage of Each Interval Per | s Set/Type forated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| TUBING RECORD: | Size: | Set At: | Packer At: | Liner Run: | Yes No | | | | | | |
| Date of First, Resumed | Production, SWD or ENH | HR. Producing Meth | | Gas Lift (| Other (Explain) | | | | | | |
| Estimated Production Per 24 Hours | Oil E | Bbls. Gas | Mcf Wate | er B | bls. G | as-Oil Ratio | Gravity | | | | |
| DISPOSITIO | ON OF GAS: | Open Hole | | Comp. Comp. | mmingled | PRODUCTIO | ON INTERVAL: | | | | |
| | bmit ACO-18.) | Other (Specify) | (Submit) | 4CO-5) (Sub | omit ACO-4) | | | | | | |

| Form | ACO1 - Well Completion | | | | | | | | |
|-----------|--------------------------|--|--|--|--|--|--|--|--|
| Operator | Rama Operating Co., Inc. | | | | | | | | |
| Well Name | Kummer 5-4 | | | | | | | | |
| Doc ID | 1234041 | | | | | | | | |

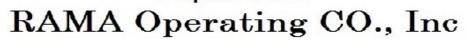
Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | Type and Percent Additives |
|----------------------|----------------------|-----------------------|--------|------------------|-------------------|----------------------------|
| Surface | 12.250 | 8.625 | 23 | 333 | 60/40 Poz | 3% gel 3% CC |
| | | | | | | |
| | | | | | | |
| | | | | | | |



Joshua R. Austin Petroleum Geologist

report for





COMPANY: RAMA Operating Company, Inc.

LEASE: Kummer #5-4

FIELD: Chase-Silica

LOCATION: Se-Nw-Nw-Ne (500' FNL & 2080' FEL)

SEC: 4 TWSP: 20s RGE: 11w

COUNTY: Barton STATE: Kansas

KB: 1783' GL: 1774'

API # 15-159-26058-00-00

CONTRACTOR: Sterling Drilling (rig #4)

Spud: 11/28/2014 Comp: 12/03/2014

RTD: <u>3355'</u> LTD: <u>N/A</u>

Mud Up: 2600' Type Mud: Chemical was displaced

Samples Saved From: 2600'-RTD

Drilling Time Kept From: 2600'- RTD

Samples Examined From: 2600' - RTD

Geological Supervision From: 2880' to RTD

Geologist on Well: <u>Josh Austin</u> Surface Casing: <u>8 5/8" @335'</u> Production Casing: <u>none</u>

Electronic Surveys: none

NOTES

Due to the low structural position and lack of shows in the samples, it was recommeded by all parties involved in the Kummer 5-4 that it be plugged and abandonded at the rotary total depth 3355'.

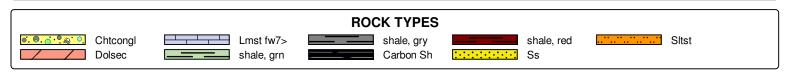
RAMA Operating Co., Inc. well comparison sheet

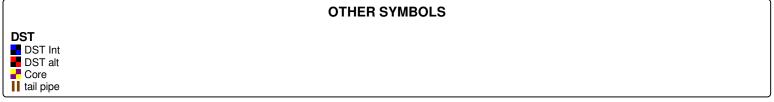
DRILLING WELL

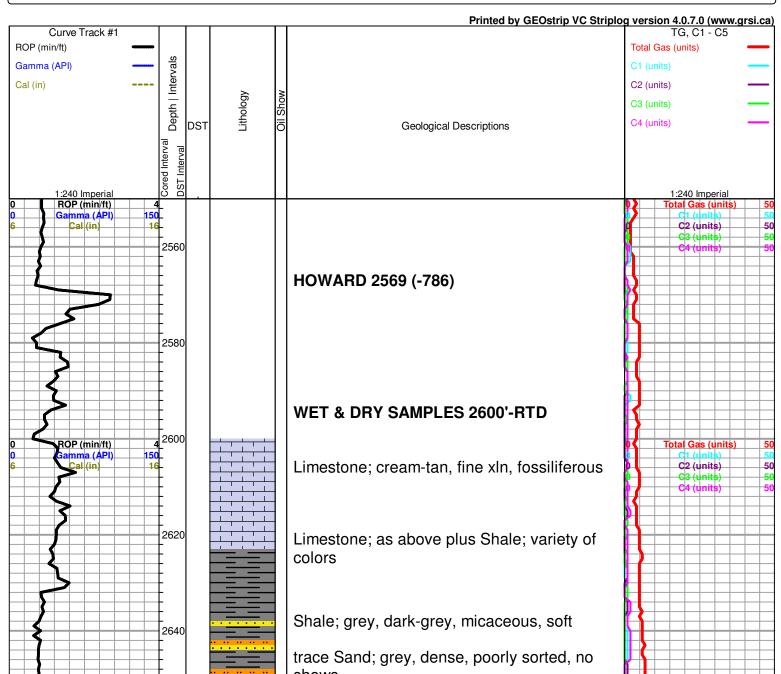
COMPARISON WELL

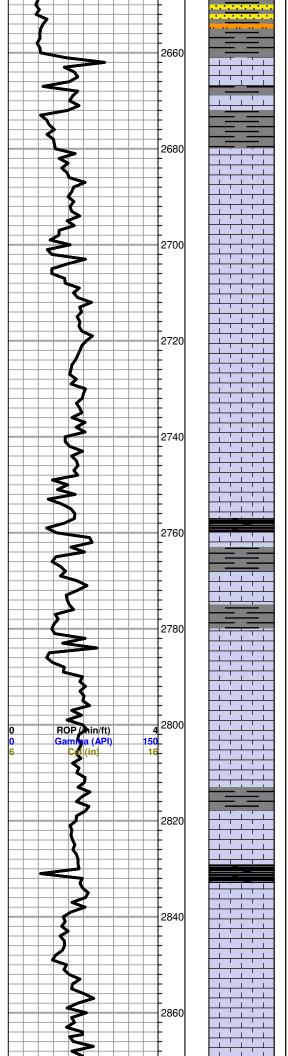
COMPARISON WELL

| | | Kummer | 5-4 | | | Kummer | 4-4 | | Schmidt 1 | | | |
|-------------|--------|---------|-----|---------|------|---------|--------------|------|-----------|---------|------------|--------|
| | | | | | | | | 1 | | C-SE-N | IE-NE | |
| | | | | | | | | | | | | |
| | | | | | | | Struct | ural | | | Structural | |
| | 1783 | KB | | | 1785 | KB | Relationship | | 1780 | KB | Relati | onship |
| Formation | Sample | Sub-Sea | Log | Sub-Sea | Log | Sub-Sea | Sample | Log | Log | Sub-Sea | Sample | Log |
| Heebner | 2922 | -1139 | N/A | N/A | 2917 | -1132 | -7 | N/A | 2922 | -1142 | 3 | N/A |
| Douglas | 2953 | -1170 | N/A | N/A | 2948 | -1163 | -7 | N/A | | | | N/A |
| Brown Lime | 3043 | -1260 | N/A | N/A | 3040 | -1255 | -5 | N/A | | 1111111 | | N/A |
| Lansing | 3063 | -1280 | N/A | N/A | 3062 | -1277 | -3 | N/A | 3067 | -1287 | 7 | N/A |
| Arbuckle | 3345 | -1562 | N/A | N/A | 3316 | -1531 | -31 | N/A | 3322 | -1542 | -20 | N/A |
| Total Depth | 3355 | -1572 | N/A | N/A | 3420 | -1635 | | N/A | 3325 | -1545 | | N/A |









SHOWS

TOPEKA 2660 (-877)

Limestone; buff, fine-medium xln, chalky, slighlty granular, no shows

Shale; grey-greyish green

Limestone; It. grey-cream, fine xln, dense, slightly fossiliferous, chalky, no shows

Limestone; as above, dense, slighlty cherty

Limestone; cream, fine xln, chalky in part, poor visible porosity, no shows

Limestone; as above cream-lt. grey, fossiliferous in part, chalky

KING HILL

black carboniferous shale grey shale

Limestone; cream, fine xln, chalky, plus grey shale

Limestone; cream-white, fine xln, chalky, dense, plus Chert; grey-lt. grey, boney

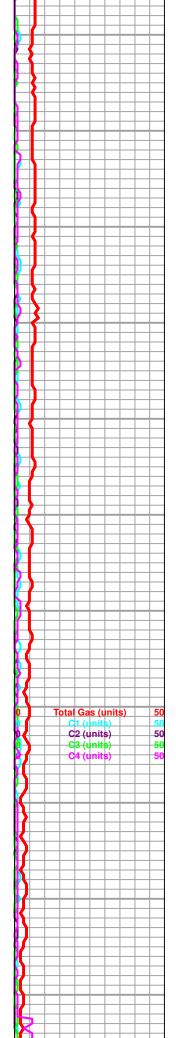
grey-green shale

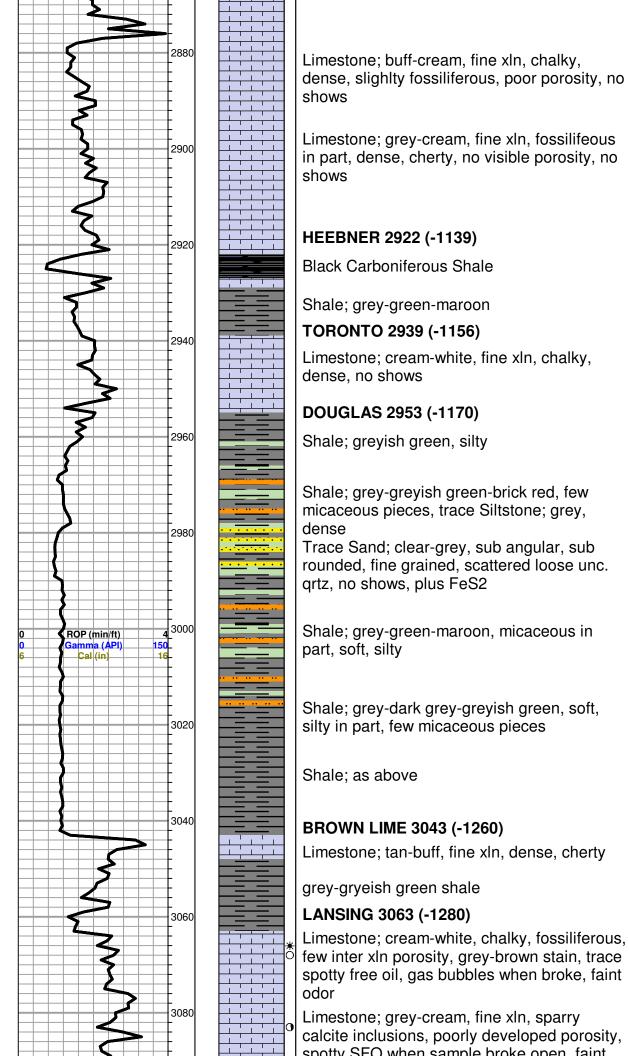
QUEEN HILL

black carboniferous shale

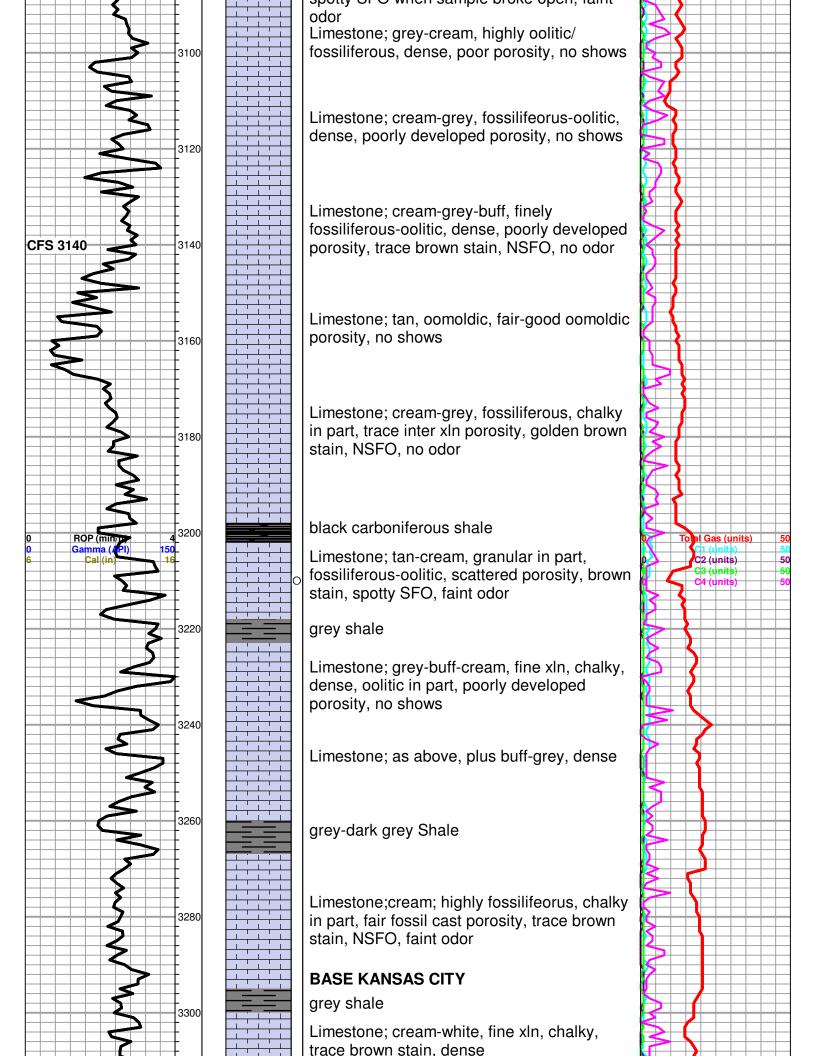
Limestone; cream-lt.grey, fine-medium xln, granular in part, fossiliferous, few chalky pieces, scattered porosity, no shows

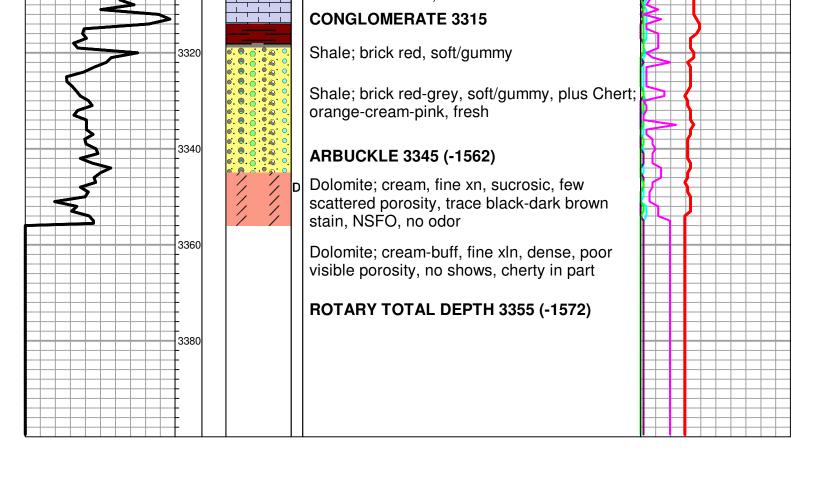
Limestone as above, no shows





KB 1783 Total Gas (units) C2 (units) C3 (units)









TREATMENT REPORT

| | | | | , | 1,7 | | | | | | | | | | | | | |
|----------------------------------|--------------------|----------------|----------|-------------|------------|----------|-------|--|---------------|---|----------|--------------|----------|---------------|-------------|---------------------------------------|--|--|
| Sustomer | Opergr. | is Co | _Į | nc. | Lease No. | | | | | | | Date | | | | | | |
| Lease K | ummen | | | | Well # 5-4 | | | | | | | 11-28.2014 | | | | | | |
| Field Order | # Stati | on Pr | 980 | liles | | | | Casing | 5/8 Dep | th 333 County Berry State Ke | | | | | | | | |
| Type Job | CNW/ | | | | 10 | | | | Formatio | on <i>TD-3</i> 3 | 35 | | Legal De | escription | 4-2 | 0-11 | | |
| PIPE DATA PERFORATIN | | | | | | DATA | | FLUID | | | | REA | | RESUME | | | | |
| Casing Size Tubing Size Shots/Ft | | | • | | Ac | pid . | | | RATE | PRE | | ISIP | | | | | | |
| Depth 33 | 233 Depth | | | Го | | Pr | e Pad | · · · · · · · · · · · · · · · · · · · | Max | | 5 Min. | | | | | | | |
| Volume 21 | olume 7; Volume | | 7 | Го | Pad | | | | Min | | | | 10.Min. | | | | | |
| Max Press | Max Pre | ss Fr | om | Т | Го | | Fr | ac | | Avg | | | | 15 Min. | | · · · · · · · · · · · · · · · · · · · | | |
| Well Connect | ion Annulus | Vol. Fr | om | Т | Го | | . 4. | | | HHP Use | d | | | Annulus F | ressure | 9 | | |
| Plug Depth | Packer D | · IEN | om | Т | ō | | | ısh | | Gas Volu | ne | | | Total Load | d | | | |
| Customer Re | presentative | LEAR | ى برد | 59105 | Ç | Station | Mar | nager Kel | 11n Go1 | (4)0,, | Treat | er J | 9500 | Frsi | | . 1 | | |
| Service Units | 27283 | 845 | 5) | 1984 | 3 - | 1950 | 3 | 21010 | | | | | | | | <u> </u> | | |
| Driver Names | Denn | Ed | | ES | | PSJ E | | PS+E. | | | | | | | | | | |
| Time | Casing Pressure | Tubir Press | | Bbls. P | ump | ed | | Rate | | | | Servi | e Log | | I | ., | | |
| 8:30pm | | · | | | | | | | on lo | 0057101 | , /59 | ; Fe | ty m | ا لا الجماع ح | | | | |
| <u> </u> | | | | - | | | 330 | | | 305x 60140 POZ 290 Gel, 39616 44 # Cellf 19 ke 14.8 pps, 1,21 ye, 12 | | | | | | | | |
| | | | | | | | | | 147 | 4 (011) | C15/C | 0 | 14,8 p | P5, 1,2 | 150 | الم | | |
| | | | _ | | | | | | 5.1 | 8 WS1 | er Pe | 95111 | reme | n | | | | |
| 7/ | 1.0 | | | | | | | | | | | | | · . | | | | |
| 5:00 gm | 400 | · | | 3 | | | S Pum | | | Pump 3 bbls weter | | | | | | | | |
| | 400 | | | | / | | | 5 | miy 3 | | | | | | | | | |
| | | | \dashv | , | | | | | Shux 2 | UUN | · . | | | | | | | |
| | 400 | | | 7 | 0 | - | | 5 | Release | | ' | · · | | | | | | |
| 0:00 pm | 100 | | | | Carrendo | \dashv | | <u>, </u> | D-5 D19 | | · | | | | | <u> </u> | | |
| U UU PM | | | _ | <u> </u> | | | | | Shud ii | <u> </u> | | | | <u> </u> | | <u> </u> | | |
| | | | | | | - | | | CIL | 00 1 | 7 | 10 A | NTZ | 7 92 | | | | |
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