

ORIGINAL

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15-051-21,618-00-01

County Ellis

W/2 - NE - SW Sec. 4 Twp. 13S Rge. 16 E/XW

1980 Feet from S/N (circle one) Line of Section

3630 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Alexia Well # 1

Field Name Emmeram

Producing Formation L/KC

Elevation: Ground 1976' KB 1981'

Total Depth 3500' PBDT 3440'

Amount of Surface Pipe Set and Cemented at 204' Feet

Multiple Stage Cementing Collar Used? Yes XX No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 1119'

feet depth to surface w/ 325 sx cmt.

Drilling Fluid Management Plan ALT II 4-11-96
(Data must be collected from the Reserve Pit) LS

Chloride content 38,000 ppm Fluid volume 150 bbls

Dewatering method used Allow solids to settle and remove water

Location of fluid disposal if hauled offsite:

Operator Name Fluid still in pits

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

Operator: License # 5252

Name: R.P. Nixon Operations, Inc.

Address 207 West 12th Street

City/State/Zip Hays, Kansas 67601-3898

Purchaser: Farmland Industries

Operator Contact Person: Dan A. Nixon

Phone (913) 628-3834

Contractor: Name: Shields Drilling

License: 5184

Wellsite Geologist: Dan A. Nixon

Designate Type of Completion
 New Well _____ Re-Entry _____ Workover _____

Oil _____ SWD _____ SLOW _____ Temp. Abd.
 Gas _____ ENHR _____ SIGW _____
 Dry _____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: Tolco Oil & Gas

Well Name: Brungardt #1 (D & A)

Comp. Date 12/28/78 Old Total Depth 3245'

Deepening _____ Re-perf. _____ Conv. to Inj/SWD
 Plug Back _____ PBDT
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Inj?) _____ Docket No. _____

7/4/95 7/6/95 7/31/95
Spud Date Date Reached TD Completion Date

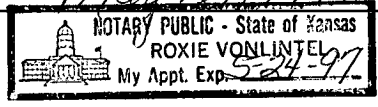
INSTRUCTIONS: An original and two copies of this form shall be filed with the KCC Conservation Office, Wichita State Office Building, 130 South Market, Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). **One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED.** Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature [Signature]
Title President Date 1/2/96

Subscribed and sworn to before me this 2nd day of January, 1996.

Notary Public [Signature]
Date Commission Expires Nov 24, 1997



STATE CORPORATION COMMISSION RECEIVED
JAN 4 8 1996
WICHITA, KANSAS
01-03-96

| K.C.C. OFFICE USE ONLY | | |
|-------------------------------------|-------------------------------------|--|
| F | <input type="checkbox"/> | Letter of Confidentiality Attached |
| C | <input checked="" type="checkbox"/> | Wireline Log Received |
| C | <input checked="" type="checkbox"/> | Geologist Report Received |
| Distribution | | |
| <input checked="" type="checkbox"/> | KCC | <input type="checkbox"/> SWD/Rep |
| <input type="checkbox"/> | KGS | <input type="checkbox"/> Plug |
| | | <input type="checkbox"/> NGPA |
| | | <input type="checkbox"/> Other (specify) |

Operator Name R.P. Nixon Operations, Inc. Lease Name Alexia Well # 1

Sec. 4 Twp. 13S Rge. 16W East West
 County Ellis

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 Yes No (on original well)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No (Submit Copy)
 List All E. Logs Run:
 Radiation Guard Log by ELI Wireline

Log Formation (Top), Depth and Datums Sample

| Name | Top | Datum |
|----------------|----------------------------|-------|
| Anhydrite | 1109' | |
| Anhydrite base | 1148' | |
| Topeka | 2910' | |
| Heebner | 3159' | |
| Toronto | 3177' | |
| Lansing | 3208' (-1227) | |
| Base KC | 3443' | |
| Arbuckle | 3463' (-1482) | |
| Total Depth | 3499' (log) 3500' (rotary) | |

| CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> 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" | unknown | 204' | unknown | 135 | unknown |
| Production | 7 7/8" | 4 1/2" | 9.5 | 3499' | Allied ASC | 125 | |

| ADDITIONAL CEMENTING/SQUEEZE RECORD | | | | |
|--|------------------|----------------|------------------------------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
| <input checked="" type="checkbox"/> Perforate | | | | |
| <input checked="" type="checkbox"/> Protect Casing | 1119' | 60/40 Poz | 250 | |
| <input type="checkbox"/> Plug Back TD | to surface | common | 75 (followed the 60/40 Poz cement) | |
| <input type="checkbox"/> Plug Off Zone | | | | |

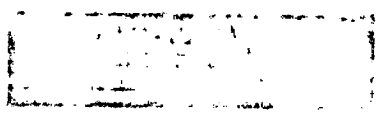
| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | | | | | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth | |
|----------------|--|-----------------------------------|---------------|----------|----------|--|--|
| | | Arbuckle 3468'-72' (plugged off); | L/KC 3414-16' | | | | |
| | 3391-93' | 3368-70' | 3253-55' | 3235-37' | 3216-18' | | |

| TUBING RECORD | | Size | Set At | Packer At | Liner Run | | | |
|--|-----|---|--------|-----------|---|-------|---------------|---------|
| | | 2 1/2" | 3200' | none | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| Date of First, Resumed Production, SWD or Inj. | | Producing Method | | | | | | |
| 8-1-95 | | <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) | | | | | | |
| Estimated Production Per 24 Hours | Oil | Bbls. | Gas | Mcf | Water | Bbls. | Gas-Oil Ratio | Gravity |
| | 10 | | 0 | | 20 | | | 36° |

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: 3216'-3414' (overall)



GEOLOGICAL REPORT

DAN A. NIXON, PETROLEUM GEOLOGIST - CERTIFIED & REGISTERED

15-051-21618-0001

ORIGINAL

KCC

APR 12 1996

Well Name: #1 Alexia OWWO

Location: W/2 NE SW
Section 4, T13S-R16W
Ellis County, Kansas

Operator: R.P. Nixon Operations, Inc.
207 West 12th Street
Hays, KS 67601

Contractor: Shields Drilling Co., Inc.
P.O. Box 709
Russell, Kansas 67665

Elevation: American Elevations
Rotary Bushing: 1981'
Ground Level: 1976'

Samples: One foot samples from 3247'
to 3500' and five foot samples
from 3247' to 3500' RTD.

Time Log: One foot intervals from 3247'
to 3500' RTD. A copy of the
time log is included in this report.

Surface Casing: 8⁵/₈" @ 204' w/135 sacks (already set)

Production Casing: 4¹/₂" set @ 3499' w/125 sacks of ASC
cement.

Port Collar or DV Tool: None

Re-entry Date: 7/4/95

Completion Date: 7/6/95

API #: 15-051-21,618-00-01

Old Well Information: Operator - Tolco Oil & Gas
Well name - #1 Brungardt
Drilled 12/28/78
Old RTD - 3245'
Dry & abandoned

RECEIVED
STATE CORPORATION COMMISSION

JAN 03 1996

CONSERVATION
DIVISION
WICHITA, KANSAS

15-051-2618-00-01

| FORMATION TOPS | SAMPLE DEPTH | "OLD" LOG DEPTH | "NEW" LOG DEPTH | MINUS DATUM |
|-----------------------------|--------------|-----------------|-----------------|-------------|
| *Anhydrite (driller's) | | 1114' | 1109' | +872 |
| *Anhydrite Base (driller's) | | 1152' | 1148' | +833 |
| *Topeka | | 2913' | 2910' | -929 |
| *Heebner Shale | | 3162' | 3159' | -1178 |
| *Toronto Lime | | 3180' | 3177' | -1196 |
| *Lansing | | 3210' | 3208' | -1227 |
| Base of the Kansas City | 3443' | | 3443' | -1462 |
| Arbuckle Dolomite | 3463' | | 3463' | -1482 |
| Total Depth | 3500' | 3245' | 3499' | -1518 |

*Already penetrated when original hole was drilled by Tolco Oil & Gas in 1978.

SAMPLE ANALYSIS OF ZONES OF INTEREST: (corrected to the electric log)

| | | |
|-----------------------------|-----------|--|
| Lansing | 3210'-09' | Zone already penetrated by original well. Electric log indicated 5-11% porosity, 23-50% water saturation. Lower 4' of zone looked the best. Should be considered for testing. |
| | 3234'-40' | Zone already penetrated by original well. Electric log indicated 7½-21% porosity, 28-54% water saturation. Upper 4' of zone looked the best. Open on Drill Stem Test #1 taken by the original operator. See below for this information. This zone is open on the #1 and #3 Beery (R.P. Nixon Oper., Inc.) wells to the northwest. Recommended for testing. |
| Drill Stem Test #1 Results: | | (Taken from the scout card) Open and shut-in times: 30"-45"-30"-45" Recovery: 300' muddy water Flow Pressures: 90#-129# Shut-in Pressures: 323#-299# |
| | 3252'-54' | Vugular, occasionally oolitic, white limestone, good vuggy porosity, spotty stain. Oolitic in part. Wet samples had a show of free oil and odor. Log calculations indicated 19% porosity, 22% water saturation. Recommended for testing. |
| | 3258'-64' | Lime as above, but with poor porosity. Spotty light stain, show of free oil and odor in wet samples. Calculated 6½-8% porosity, 40-44% water saturation on the log. Not worthy of testing due to poor porosity. |

15.051.21618.000 ORIGINAL

- Lansing (cont.) 3282'-88' Barren, oolitic and fossiliferous, white, limestone, fair fossil porosity. Trace of rare spotty stain. No shows or odor in the wet samples. Calculated 18-21% porosity, 32-56% water saturation on the log. Not worthy of testing.
- 3300'-08' Oolitic, barren, white limestone. Trace of rare spotty stain and no shows or odor in the wet samples. Calculated 7½-15% porosity, 30-92% water saturation on the log. Not recommended for testing.
- 3326'-29' Fine crystalline, grey limestone, slight vuggy porosity with rare spotty stain. No shows of free oil or odor in the wet samples. Electric log indicated this to be tight at 5% porosity and 43% water saturation. Not worthy of testing.
- 3366'-70' Fine crystalline, white vugular limestone, poor and fair vuggy porosity, rare spotty stain and occasional spotty stain. Slight show of free oil and odor in wet samples. Log calculations indicated 4½-16% porosity, 31-39% water saturation. Open in the #3 Beery well to the northwest. Recommended for testing.
- 3390'-94' Fine crystalline, white vugular limestone, fair vuggy porosity, light spotty stain. Trace of saturated stain. Show of free oil and odor in wet samples. Log calculations indicated 7½-8½% porosity, 24-30% water saturation. Open in the #1 and #3 Beery wells to the northwest. Recommended for testing.
- 3414'-19' Fine crystalline, vugular, grey limestone, fair vuggy porosity, spotty light stain. Show of free oil and odor in the wet samples. Calculated 7% porosity, 23% water saturation on the electric log. Open in the #1 and #3 Beery wells to the northwest. Recommended for testing.
- Arbuckle Dolomite 3463'-76' White, buff, fine and medium crystalline dolomite, poor intercrystalline porosity, spotty stain, occasional sucrosic, saturated dolomite. Had a show of free oil and odor in the wet samples. Calculated 13-18% porosity, 44-64% water saturation on the log. Recommended for testing.
- 3476'-3500' Medium and coarse crystalline, slightly rhombic, buff and white dolomite. Fair intercrystalline porosity with spotty stain in the upper portion. Stain decreased as depth increased. Probably water bearing and not worthy of testing.

ORIGINAL

REMARKS:

15.051.21618.00.01

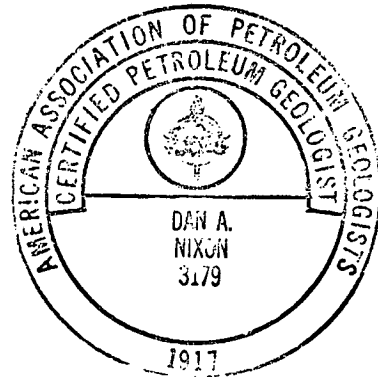
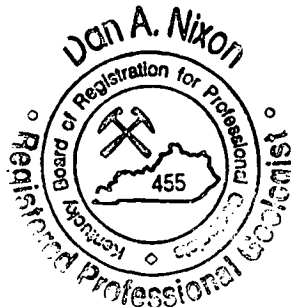
Structurally, the Lansing top on the #1 Alexia OWWO ran 2' higher than what was originally reported on the scout card for the washdown well, the #1 Brungardt (Tolco Oil & Gas), and 1' higher than the #1 Beery well (R.P. Nixon Operations, Inc.) to the northwest about 1/3 mile. The #1 Beery is the best well on the lease, producing from both the Lansing/Kansas City and Arbuckle formations.

The Arbuckle top on the #1 Alexia OWWO ran 5' low to the same #1 Beery to the northwest.

Based on its structural position to surrounding production, oil shows throughout the Lansing/Kansas City and Arbuckle samples, and electric log calculations of those zones with shows, 4 1/2" casing was cemented at 3499' with 125 sacks for further testing.

Respectfully Submitted,

Dan A. Nixon, Petroleum Geologist
AAPG Certification #3179
Registration #455



DRILLING TIME LOG

15.051.21618.00.01

ORIGINAL

Old RTD: 3245' Corrected to 3247' when washing down well.

| | | | | | |
|-------------|-----------|-----------|-----------|-----------|-----------|
| 3247'-3250' | | | | | 6-6-5 |
| 3250'-3275' | 4-5-5-4-2 | 2-2-5-5-4 | 4-4-4-4-4 | 5-6-5-5-5 | 5-6-3-6-5 |
| 3275'-3300' | 5-5-4-6-5 | 4-6-5-5-3 | 3-4-3-4-4 | 5-6-6-7-7 | 7-8-7-7-8 |
| 3300'-3325' | 3-5-4-3-3 | 2-4-5-2-5 | 6-6-6-7-7 | 6-7-6-6-7 | 7-6-6-5-7 |
| 3325'-3350' | 6-7-6-5-5 | 6-6-7-6-7 | 6-5-6-5-4 | 5-6-4-3-4 | 5-5-5-4-5 |
| 3350'-3375' | 6-6-6-6-6 | 6-6-5-6-6 | 7-5-7-6-6 | 4-4-4-5-5 | 6-7-7-6-7 |
| 3375'-3400' | 7-7-7-7-8 | 9-8-7-6-2 | 3-4-4-7-6 | 4-5-5-5-5 | 6-7-7-7-7 |
| 3400'-3425' | 7-7-7-6-7 | 7-7-7-5-6 | 7-6-6-3-6 | 6-7-6-6-5 | 8-6-7-7-6 |
| 3425'-3450' | 6-7-8-8-7 | 8-8-6-6-8 | 8-8-8-7-8 | 8-7-9-7-7 | 7-6-5-7-7 |
| 3450'-3475' | 6-7-6-6-6 | 6-7-4-3-2 | 3-3-3-4-4 | 4-4-3-3-3 | 5-4-2-2-3 |
| 3475'-3500' | 3-2-3-4-3 | 3-2-2-2-2 | 3-2-3-3-2 | 2-3-3-3-4 | 3-3-2-4-4 |

CFS @ 3500' - 60" 3500' RTD

ALLIED CEMENTING CO., INC.

2467

ORIGINAL

Russell

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified in front of this contract. "Job" refers to the services of Allied Cementing Co., Inc. and "Customer" shall refer to the party identified in front of this contract. "Job" refers to the services of Allied Cementing Co., Inc. and "Customer" shall refer to the party identified in front of this contract.

| | | | | | | | | | | | | | |
|--------|---------|--------|----|----------|--------------|----------------|-------------------------------------|--------|--------------|-------------|---------|-----------|---------|
| DATE | 11-9-95 | SEC. | 14 | TWP. | 13 | RANGE | 16 | LOC. | Walton 6W 2W | ON LOCATION | 9:00 AM | JOB START | 3:45 PM |
| LEASER | Alexig | WELL # | 1 | LOCATION | Walton 6W 2W | AMOUNT ORDERED | 228rbm 6% 40 6% 6W 7.5rbm Com 3% CC | COUNTY | Ellis | STATE | Ks | | |

DATE 11-9-95 SEC. 14 TWP. 13 RANGE 16 LOC. Walton 6W 2W ON LOCATION 9:00 AM JOB START 3:45 PM

| | | | |
|---------------------|-------------|------------|--|
| CONTRACTOR | CoTods | OWNER | |
| TYPE OF JOB | Top Stage | CEMENT | |
| HOLE SIZE | 7 1/2" T.D. | | |
| CASING SIZE | 4 1/2" | DEPTH | |
| TUBING SIZE | 2 3/8" | DEPTH | |
| DRILL-PIPE | | DEPTH | |
| TOOL JOINT | | DEPTH | |
| PRES. MAX | | MINIMUM | |
| MEAS. LINE | | SHOE JOINT | |
| CEMENT LEFT IN CSG. | | | |
| PERFS. | | | |

| | | | |
|------------|------------------|----------|------------|
| EQUIPMENT | | | |
| PUMP TRUCK | CEMENTER Bill L. | | |
| # 221 | HELPER Ron D. | HANDLING | 1.05 |
| BULK TRUCK | DRIVER Steve T. | MILEAGE | 42/22/Mile |
| # 282 | DRIVER Gerald K. | TOTAL | 2314.00 |
| # 155 | | | |

REMARKS: BPC 3100 Feet 1500
Spot 2rbm Sand Packer 1029
Perf 119 Cement w/ 250rbm 6% 40
follow up 7.5rbm Com 3% CC

DEPTH OF JOB 550"
PUMP TRUCK CHARGE 550.00
EXTRA FOOTAGE @ 235 42.30
MILEAGE 18 @ 235 42.30
PLUG @

CHARGE TO: R.P. Nixon op.
STREET 207 W 12th
CITY HAYS STATE Ks ZIP 67601

TOTAL CHARGE
DISCOUNT IF PAID IN 30 DAYS
To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE *[Signature]*

ALLIED CEMENTING CO., INC.

3326

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT:

Russell

15:05/21618:00:01

| | | | | | | | |
|--------------------|---------------------|-----------------------------------|-----------------|--------------------------|---------------------------|------------------|---------------------------|
| DATE <u>7-6-95</u> | SEC <u>4</u> | TWP. <u>13</u> | RANGE <u>16</u> | CALLED OUT <u>6:30pm</u> | ON LOCATION <u>8:30pm</u> | JOB START | JOB FINISH <u>11:15AM</u> |
| LEASE <u>Alexi</u> | WELL# <u>owwo 1</u> | LOCATION <u>6 NW 1/4 S Walker</u> | | | COUNTY <u>Ellis</u> | STATE <u>Kan</u> | |

OLD OR NEW (Circle one)

CONTRACTOR Shields Drlg.

TYPE OF JOB _____

HOLE SIZE 7 7/8 T.D. 3500

CASING SIZE 4 1/2 DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX 1100 PSI MINIMUM _____

MEAS. LINE _____ SHOE JOINT 8'

CEMENT LEFT IN CSG. 8'

PERFS. _____

OWNER _____

CEMENT

AMOUNT ORDERED 150 ASC

500 gal Flush

| | | | |
|--------------------------------|---|-------------|----------------|
| COMMON | @ | _____ | _____ |
| POZMIX | @ | _____ | _____ |
| GEL | @ | _____ | _____ |
| CHLORIDE | @ | _____ | _____ |
| <u>ASC 150</u> | @ | <u>7 85</u> | <u>1177 50</u> |
| <u>WFR² 500 Gal</u> | @ | <u>1 00</u> | <u>500 00</u> |
| _____ | @ | _____ | _____ |
| _____ | @ | _____ | _____ |
| _____ | @ | _____ | _____ |
| HANDLING <u>150</u> | @ | <u>1 05</u> | <u>157 50</u> |
| MILEAGE <u>4 1/2 Sk / Mile</u> | | | <u>108 00</u> |
| TOTAL | | | <u>1943 00</u> |

EQUIPMENT

PUMP TRUCK CEMENTER Bill R.

177 HELPER Walt H.

BULK TRUCK DRIVER _____

BULK TRUCK DRIVER Steve

283

REMARKS:

Pipe set c 3499

Shoe pt 8'

Insert 3491

Cement w/ 150m Asc 500 gal Flush

Time plug w/ 56.6 bbls

and plug c/ 1100 psi

float did hold

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 1030 00

EXTRA FOOTAGE @ _____

MILEAGE 18 @ 2 35 42 30

PLUG 4 1/2" Rubber @ _____ 38 00

_____ @ _____

_____ @ _____

TOTAL 1110 30

CHARGE TO: R. P. Nixon op. Inc

STREET 207 W. 12th St.

CITY HAYS STATE Ks ZIP 67601

RECEIVED
STATE CORPORATION COMMISSION

JAN 0 3 1996

FLOAT EQUIPMENT

WICHITA, KANSAS

| | | | |
|-------|---|-------|-------|
| _____ | @ | _____ | _____ |
| _____ | @ | _____ | _____ |
| _____ | @ | _____ | _____ |
| _____ | @ | _____ | _____ |
| _____ | @ | _____ | _____ |

TOTAL _____