Missouri Oil and Gas Council

Form OGC-3I

**INJECTION WELL PERMIT APPLICATION:** to drill, deepen, plug back, or convert an existing well

**APPLICATION TO DRILL** ☒ **DEEPEN** ☐ **PLUG BACK** ☐ **CONVERSION** ☐

NAME OF COMPANY OR OPERATOR Town Oil Co. DATE 10-1-92

Rt. 4 (Address) Paola (City) Kansas 66071 (State)

**DESCRIPTION OF WELL AND LEASE**

| Name of lease | Well number | Elevation (ground) |
|---|---|---|
| Walton | 27-W | approx 1050' |

WELL LOCATION (give footage from section lines) 1860 ft. from (N) ~~(S)~~ sec line 2685 ft. from ~~(E)~~ (W) sec line

WELL LOCATION Section 4 Township 46 Range 33 COUNTY Cass

Nearest distance from proposed location to property or lease line 675 feet

Distance from proposed location to nearest drilling, completed or applied — for well on the same lease 165 feet

| Proposed depth | Rotary or Cable tools | Drilling Contractor, name and address | Approx. date work will start |
|---|---|---|---|
| 600 | Rotary | Company tools | When approved |

Number of acres in lease: approx 80

Number of wells on lease, including this well, completed in or drilling to this reservoir: 33

Number of abandoned wells on lease: 0

If lease purchased with one or more wells drilled, from whom purchased?

Name Harry Knoche

Address Belton, MO.

No of Wells: producing 27, injection 6, inactive 0, abandoned 0

Status of Bond

Single Well ☐ Amt. _____ Blanket Bond ☒ Amt. 20,000 ☒ ON FILE ☐ ATTACHED

Outline Proposed Stimulation Program

Water injection and secondary recovery

Proposed casing program

| amt. | size | wt/ft | cem. |
|---|---|---|---|
| 600 | 2" | 3.75 | to surface |

Approved casing — To be filled in by State Geologist

| amt. | size | wt/ft | cem. |
|---|---|---|---|
| 600 | 2" | 3.75 | to surface |

I, the undersigned, state that I am the Partner of the Town Oil Co. (company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature Lisle Town

Permit Number 20553

Approved Date 10/23/92

Approved by [illegible]

☐ SAMPLES REQUIRED ☑ SAMPLES NOT REQUIRED

WATER SAMPLES REQUIRED @ _____

Note: This Permit not transferable to any other person or to any other location.

Remit two copies to: Missouri Oil and Gas Council, P.O. Box 250, Rolla, MO 65401

One will be returned for driller's signature

*Approval of this permit by the Oil and Gas Council does not constitute endorsement of the geologic merits of the proposed well nor endorsement of the qualifications of the permittee.*

3/12/82

I Lester Town of the Town Oil Co.

Company confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized Council representative.

Driller's signature Lester Town

Date 10-1-92

**Proposed Operations Data**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Proposed average daily injection, | pressure | 400 | psig, | rate | 25 | bpd/gpm, | volume | 300 bbl/gal |
| Approved average daily injection, (to be filled in by State Geologist). | pressure | | psig, | rate | | bpd/gpm, | volume | bbl/gal |
| Proposed maximum daily injection, | pressure | 600 | psig, | rate | 50 | bpd/gpm, | volume | 1000 bbl/gal |
| Approved maximum daily injection, (to be filled in by State Geologist). | pressure | | psig, | rate | | bpd/gpm, | volume | bbl/gal |

Estimated fracture pressure/gradient of injection zone Breakdown 800 psi/foot

Describe the source of the injection fluid produced and fresh water

Submit an appropriate analysis of the injection fluid. (Submit on separate sheet).
See water analysis report

Describe the compatibility of the proposed injected fluid with that of the receiving formations, including total dissolved solids comparisons.

Same

Give an accurate description of the injection zone including lithologic descriptions, geologic name, thickness, depth, porosity, and permeabllity.

Cattleman sand, approx. 25' thick, 542 to 579
Porosity 21.8; permsability 47

Give an accurate description of the confining zones including lithologic description, geologic name, thickness, depth, porosity, and permeability.

Sandy shale and sandy lime imp

Submit all available logging and testing data on the well.

Give a detailed description of any well needing corrective action which penetrates the injection zone in the area of review (½ mile radius around well). Include the reason for and proposed corrective action.

None

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL

Form OGC-5

# WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☒ INJECTION ☐ SAME RESERVOIR ☐ DIFFERENT RESERVOIR ☐ OIL ☐ GAS ☐ DRY

| | |
|---|---|
| OWNER: Town Oil Co. | ADDRESS: 16205 W. 287 Paola, KS. 66071 |
| LEASE NAME: Walton | WELL NUMBER: 27W |
| LOCATION: 1860' FNL 2685 FWL | SEC. TWP. AND RANGE OR BLOCK AND SURVEY: 4-46-33 |
| COUNTY: Cass | PERMIT NUMBER (OGC-3 OR OGC-3I): 20553 |

| DATE SPUDDED | DATE TOTAL DEPTH REACHED | DATE COMPLETED READY TO PRODUCE OR INJECT | ELEVATION (DF, RKR, RT, OR Gr.) FEET | ELEVATION OF CASING HD. FLANGE FEET |
|---|---|---|---|---|
| 10-9-92 | 10-13-92 | 12-14-92 | | |

| TOTAL DEPTH | PLUG BACK TOTAL DEPTH |
|---|---|
| 610 | |

| PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION | ROTARY TOOLS USED (INTERVAL) 0 TO 610 | CABLE TOOLS USED (INTERVAL) |
|---|---|---|
| Squirrel | DRILLING FLUID USED | |

| WAS THIS WELL DIRECTIONALLY DRILLED? | WAS DIRECTIONAL SURVEY MADE? | WAS COPY OF DIRECTIONAL SURVEY FILED? | DATE FILED |
|---|---|---|---|
| No | | | |

| TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST) | DATE FILED |
|---|---|
| Electric log attached | |

## CASING RECORD

CASING (REPORT ALL STRINGS SET IN WELL - CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.)

| PURPOSE | SIZE HOLE DRILLED | SIZE CASING SET | WEIGHT (LB. FT) | DEPTH SET | SACKS CEMENT | AMOUNT PULLED |
|---|---|---|---|---|---|---|
| Surface | 9 | 6¼ | | 20'6" | 3 | 0 |
| Completion | 5 5/8 | 2 7/8 | | 593' | 103 | 0 |
| | | | | | | |

## TUBING RECORD

| SIZE IN. | DEPTH SET FEET | PACKER SET AT FEET | SIZE INCH |
|---|---|---|---|
| | | | |

## LINER RECORD

| TOP FEET | BOTTOM FEET | SACKS CEMENT | SCREEN FEET |
|---|---|---|---|
| | | | |

## PERFORATION RECORD

| NUMBER PER FEET | SIZE AND TYPE | DEPTH INTERVAL |
|---|---|---|
| 1 per 9" | 2 1/8 alum | 558-572 |
| | | |

## ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

| AMOUNT AND KIND OF MATERIAL USED | DEPTH INTERVAL |
|---|---|
| 5 sx 12x30 sand<br>15 sx 10x20 sand | 558-572 |
| | |

## INITIAL PRODUCTION

| DATE OF FIRST PRODUCTION OR INJECTION | PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING — IF PUMPING, SHOW SIZE AND TYPE OF PUMP. |
|---|---|
| 12-20-92 | Pumping 1½x4' |

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | OIL PRODUCED DURING TEST bbls. | GAS PRODUCED DURING TEST MCF | WATER PRODUCED DURING TEST bbls. | OIL GRAVITY API (CORR.) |
|---|---|---|---|---|---|---|
| -- | -- | -- | -- | 0 | -- | 25 |

| TUBING PRESSURE | CASING PRESSURE | CAL'TED RATE OF PRODUCTION PER 24 HOURS | OIL bbls. | GAS MCF | WATER bbls. | GAS OIL RATIO |
|---|---|---|---|---|---|---|
| -- | -- | 2 bbls | 2 | 0 | 4 | 0 |

DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)

METHOD OF DISPOSAL OF MUD PIT CONTENTS
Covered with dirt

**CERTIFICATE:** I, THE UNDERSIGNED, STATE THAT I AM THE partner OF THE Town Oil Co. COMPANY, AND THAT I AM AUTHORIZED BY SAID COMPANY TO MAKE THIS REPORT, AND THAT THIS REPORT WAS PREPARED UNDER MY SUPERVISION AND DIRECTION AND THAT THE FACTS STATED THEREIN ARE TRUE, CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

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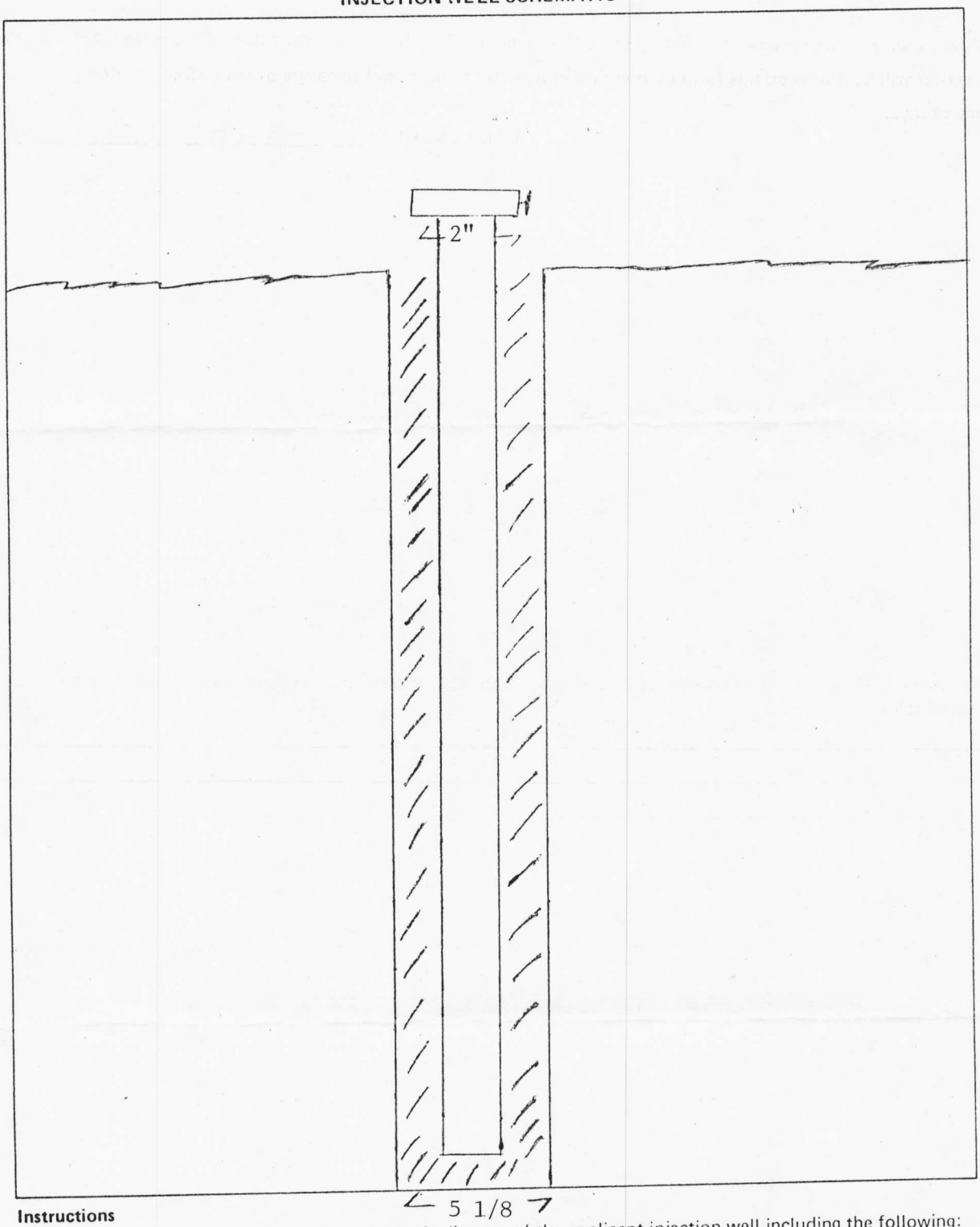
| DATE | SIGNATURE |
|---|---|
| June 8, 1993 | Leslie Town |

MO 780-0215 (1-86) (Rev. 1-86)

County Cass Permit # _____ Operator ~~Town Oil Co.~~ Well # ~~27-W~~

Missouri Oil and Gas Council
INJECTION WELL SCHEMATIC

Form OGC-11




**Instructions**

On the above space draw a neat accurate schematic diagram of the applicant injection well including the following: configuration of well head, total depth or plug back total depth, depth of all injection or disposal intervals, and their formation names, lithology of all formations penetrated, depths of the tops and bottoms of all casing and tubing, size and grade of all casing and tubing, and the type and depth of packer, depth, location, and type of all cement, depth of all perforations and squeeze jobs, and geologic name and depth to bottom of all underground sources of drinking water which may be affected by the injection. Use back if additional space is needed, or attach sheet.

# TOWN OIL COMPANY

"Drilling and Production"

Route 4
Paola, Kansas 66071

913-294-2125

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Well # 27-W
Farm: Walton
Cass County, MO.
Lease Owner: Town Oil Co.

WELL LOG

| Thickness of Strata | Formation | Total Depth | |
|---|---|---|---|
| 0-4 | Soil & clay | 4 | |
| 5 | Lime | 9 | |
| 34 | Shale | 43 | |
| 10 | Lime | 53 | |
| 16 | Shale | 69 | |
| 6 | Red bed | 75 | |
| 5 | Shale | 80 | |
| 6 | Lime | 86 | |
| 31 | Shale | 117 | |
| 1 | Lime | 118 | |
| 12 | Shale | 130 | |
| 2 | LIme | 132 | |
| 6 | Shale | 138 | |
| 30 | Lime | 168 | |
| 7 | Shale & slate | 175 | |
| 20 | Lime | 195 | |
| 5 | Shale & slate | 200 | |
| 2 | Lime | 202 | |
| 3 | Shale & slate | 205 | |
| 7 | Lime | 212 | Hertha |
| 3 | Shale shells | 215 | |
| 4 | Sand | 219 | |
| 34 | Shale | 253 | |
| 10 | Sand | 263 | |
| 46 | Shale | 309 | |
| 14 | Sand | 323 | |
| 22 | Shale | 345 | |
| 10 | Sand | 355 | |
| 6 | Shale | 361 | |
| 4 | Sandy shale | 365 | |
| 8 | Shale | 373 | |
| 4 | Sand | 377 | |
| 18 | Shale | 395 | |
| 5 | Lime | 400 | |
| 6 | Shale | 406 | |
| 3 | Lime | 409 | |
| 8 | Shale | 417 | |
| 10Lime | Lime | 427 | |
| 4 | Sand | 431 | |
| 12 | Shale | 443 | |
| 4 | Lime | 447 | |
| 4 | Sand | 451 | |
| 2 | LIme | 453 | |
| 20 | Shale | 473 | |
| 7 | Sand | 480 | |
| 27 | Shale | 507 | |
| 4 | Sand | 511 | |

Well # 27-W
Farm: Walton
Cass County, MO.
Lease Owner: Town Oil Co.

WELL LOG (cont'd)

| Thickness of Strata | Formation | Total Depth |
|---|---|---|
| 10 | Sand | 521 |
| 30 | Sand | 551 |
| 2 | Sandy lime | 553 |
| 5 | Sandy shells | 558 |
| 5 | Shale | 563 |
| 24 | Sand | 587 |
| 1 | Lime | 588 |
| 22 | Sand | 610 TD |

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**AFFIDAVIT OF PUBLICATION**

STATE OF MISSOURI
COUNTY OF CASS, ss.

I, Mark E. Cox, being duly sworn, on oath, state that I am the Publisher of The Star-Herald a weekly newspaper of general circulation, printed and published continuously for a period of at least three years in the County of Cass, State aforesaid: and that said newspaper has complied with the provisions of Section 493.050, Revised Statutes of Missouri, 1979, as amended, and that the notice hereto annexed was published in said newspaper for weeks consecutively as follows:

**PUBLIC NOTICE**

Town Oil Company, Rt. 4, Paola, Kansas has applied for injection wells to be drilled to an approximate depth of 600 feet at the following locations:

| Number | Distance from North Line of Section | Distance from East Line of Section |
|---|---|---|
| 42-W | 1520' | 2763' |
| 27-W | 1860' | 2595' |
| 7-W | 1607' | 2050' |

Section 4, Township 46, Range 33, in Cass County, Missouri.

Written comments or request for additional information regarding such wells should be directed within fifteen (15) days of this notice to: State Geologist, Missouri Oil and Gas Council, P.O. Box 250, Rolla, Missouri 65401.

Oct. 8, 1992

October 8 1992
19
19
19
19
19
19

Fee: $ 43.50

Mark E. Cox
Publisher

Subscribed and sworn to before me this

8th day of October 1992

Witness my hand and official seal.

Dora E. Nation

DORA E. NATION
Notary Public - State of Missouri
Commissioned in Cass County
My Commission Expires May 5, 1993

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| Record# | DATEAPPROV | CONAME | WELLNO | ELEVATION | ACTUALTD | TOWNSHIP | RANGE | SECTION | SURVEYLOC1 | SURVEYLOC2 | OGCNUMBER | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1416 | 04/25/84 | TOWN OIL CO. | 12W | 1065 | 612 | 46N | 33W | 04 | 1740 FNL | 1683 FEL | 20448 | INJECTION |
| 1417 | 04/24/84 | TOWN OIL CO. | 35W | 1055 | 619 | 46N | 33W | 04 | 330 FNL | 2413 FWL | 20435 | INJECTION |
| 1418 | 04/25/84 | TOWN OIL CO. | 10W | 1055 | 613 | 46N | 33W | 04 | 2080 FNL | 2667 FEL | 20456 | INJECTION |
| 1420 | 04/25/84 | TOWN OIL CO. | 11W | 1080 | 614 | 46N | 33W | 04 | 1160 FNL | 1682 FEL | 20454 | INJECTION |
| 1421 | 04/24/84 | TOWN OIL CO. | 25W | 1045 | 616 | 46N | 33W | 04 | 1275 FNL | 2696 FEL | 20430 | INJECTION |
| 1422 | 04/24/84 | TOWN OIL CO. | 23W | 1070 | 620 | 46N | 33W | 04 | 648 FNL | 2679 FEL | 20433 | INJECTION |
| 1423 | 04/25/84 | TOWN OIL CO. | 17W | 1080 | 622 | 46N | 33W | 04 | 1747 FNL | 1358 FEL | 20450 | INJECTION |
| 1424 | 04/25/84 | TOWN OIL CO. | 37W | 1065 | 610 | 46N | 33W | 04 | 30 FNL | 2679 FEL | 20442 | INJECTION |
| 1425 | 04/25/84 | TOWN OIL CO. | 7W | 1070 | 620 | 46N | 33W | 04 | 1607 FNL | 2050 FEL | 20452 | INJECTION |
| 1426 | 04/24/84 | TOWN OIL CO. | 28W | 1040 | 611 | 46N | 33W | 04 | 2399 FNL | 2538 FWL | 20428 | INJECTION |
| 1427 | 04/25/84 | TOWN OIL CO. | 16W | 1070 | 623 | 46N | 33W | 04 | 2067 FNL | 1358 FEL | 20444 | INJECTION |
| 1428 | 04/25/84 | TOWN OIL CO. | 32W | 1040 | 611 | 46N | 33W | 04 | 2105 FNL | 2250 FWL | 20438 | INJECTION |
| 1429 | 04/24/84 | TOWN OIL CO. | 26W | 1045 | 612 | 46N | 33W | 04 | 1545 FNL | 2180 FWL | 20426 | INJECTION |
| 1430 | 04/25/84 | TOWN OIL CO. | 9W | 1060 | 615 | 46N | 33W | 04 | 2025 FNL | 2341 FEL | 20453 | INJECTION |
| 1431 | 04/25/84 | TOWN OIL CO. | 33W | 1035 | 620 | 46N | 33W | 04 | 1860 FNL | 2425 FWL | 20437 | INJECTION |
| 1432 | 04/25/84 | TOWN OIL CO. | 13W | 1065 | 618 | 46N | 33W | 04 | 2060 FNL | 1683 FEL | 20447 | INJECTION |
| 1433 | 04/25/84 | TOWN OIL CO. | 38W | 1070 | 620 | 46N | 33W | 04 | 30 FNL | 2360 FEL | 20455 | INJECTION |
| 1434 | 04/25/84 | TOWN OIL CO. | 29W | 1040 | 612 | 46N | 33W | 04 | 2400 FNL | 2507 FEL | 20441 | INJECTION |
| 1435 | 04/24/84 | TOWN OIL CO. | 19W | 1085 | 626 | 46N | 33W | 04 | 1102 FNL | 1357 FEL | 20431 | INJECTION |
| 1436 | 04/25/84 | TOWN OIL CO. | 39W | 1070 | 619 | 46N | 33W | 04 | 30 FNL | 2042 FEL | 20458 | INJECTION |
| 1437 | 04/25/84 | TOWN OIL CO. | 14W | 1050 | 616 | 46N | 33W | 04 | 2413 FNL | 1683 FEL | 20445 | INJECTION |
| 1438 | 09/02/77 | TOWN OIL CO. | 8-W | 1075 | 614 | 46N | 33W | 04 | 1580 FNL | 1595 FEL | 20036 | INJECTION |
| 1439 | 04/24/84 | TOWN OIL CO. | 22W | 1070 | 0 | 46N | 33W | 04 | 648 FNL | 2362 FEL | 20432 | INJECTION |
| 1440 | 04/25/84 | TOWN OIL CO. | 30W | 1055 | 618 | 46N | 33W | 04 | 2406 FNL | 2167 FEL | 20440 | INJECTION |
| 1441 | 04/25/84 | TOWN OIL CO. | 31W | 1020 | 611 | 46N | 33W | 04 | 2395 FNL | 2185 FWL | 20439 | INJECTION |
| 1442 | 04/25/84 | TOWN OIL CO. | 20W | 1070 | 611 | 46N | 33W | 04 | 847 FNL | 2044 FEL | 20449 | INJECTION |
| 1443 | 04/25/84 | TOWN OIL CO. | 18W | 1085 | 617 | 46N | 33W | 04 | 1427 FNL | 1357 FEL | 20443 | INJECTION |
| 1444 | 04/24/84 | TOWN OIL CO. | 24W | 1055 | 613 | 46N | 33W | 04 | 1121 FNL | 2404 FWL | 20434 | INJECTION |
| 1445 | 04/25/84 | TOWN OIL CO. | 21W | 1075 | 617 | 46N | 33W | 04 | 330 FNL | 2043 FEL | 20457 | INJECTION |
| 1446 | 04/24/84 | TOWN OIL CO. | 27W | 1050 | 617 | 46N | 33W | 04 | 1860 FNL | 2685 FWL | 20427 | INJECTION |
| 1447 | 04/24/84 | TOWN OIL CO. | 34W | 1060 | 616 | 46N | 33W | 04 | 648 FNL | 2409 FWL | 20436 | INJECTION |
| 1448 | 04/25/84 | TOWN OIL CO. | 4W | 1065 | 0 | 46N | 33W | 04 | 965 FNL | 2514 FEL | 20451 | INJECTION |
| 1449 | 04/24/84 | TOWN OIL CO. | 36W | 1055 | 624 | 46N | 33W | 04 | 30 FNL | 2416 FWL | 20429 | INJECTION |
| 1450 | 04/25/84 | TOWN OIL CO. | 15W | 1050 | 621 | 46N | 33W | 04 | 2417 FNL | 1358 FEL | 20446 | INJECTION |
| 1524 | 10/20/80 | TOWN OIL CO. | 3-W | 1072 | 620 | 46N | 33W | 04 | 330 FNL | 2305 FEL | 20097 | INJECTION AC |
| 1525 | 10/20/80 | TOWN OIL CO. | 2-W | 1071 | 620 | 46N | 33W | 04 | 330 FNL | 2635 FEL | 20096 | INJECTION AC |
| 1533 | 03/10/76 | TOWN OIL CO. | T-1 | 1065 | 600 | 46N | 33W | 04 | 900 FNL | 2480 FWL | 20024 | INJECTION AC |
| 2014 | 03/05/76 | TOWN OIL CO. | 21 | 1028 | 575 | 46N | 33W | 04 | 2225 FNL | 2087 FEL | 20023 | PLUGGED |
| 3527 | 01/22/82 | TOWN OIL CO. | 32 | 0 | 600 | 46N | 33W | 04 | 1258 FNL | 1847 FEL | 20259 | PRODUCING |

STATION Ottawa OPERATOR Fred Moder

# CONSOLIDATED OIL WELL SERVICES, INC.

P.O. Box 884
Chanute, Kansas 66720
Phone (316) 431-9210

**Ticket** 88384

| Date | Customer's Acct. No. | Sec. | Twp. | Range | Well No. & Farm | Place or Destination |
|---|---|---|---|---|---|---|
| 10-15-92 | 7823 | | | | Walton # 42-W & 47-W | Belton |

| Charge To | Owner | County |
|---|---|---|
| Town Oil Co | | Cass |

| Mailing Address | Contractor | State |
|---|---|---|
| Rt 4 | Company Tools | Mo |

| City & State | Well Owner Operator Contractor |
|---|---|
| Paola, KS | |

## CEMENTING SERVICE DATA

| TYPE OF JOB | | CASING | | HOLE DATA | | PLUGS AND HEAD | | PRESSURE | | CEMENT LEFT IN CASING | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Surface | | New | | Bore Size | 5 5/8 | Bottom | 1.5W | Circulating | 200# | Requested | |
| Production | ✓ | Used | — | | | Top | | Minimum | | Necessity | |
| Squeeze | | Size | 2 7/8 | Total Depth | 600' | Head | BV | Maximum | 600# | Measured | |
| Pumping | | Weight | | Cable Tool | | FLOAT EQUIPMENT | | Sacks Cement | 206 | | |
| Other | | Depth | 585, 592 | | | Pin | | Type & Brand | Portland A. Poz mix | | |
| | | Type | | Rotary | AIR | | | Admixes | 2% Gel 2 Gel Aland | | |

## FRACTURING - ACIDIZING SERVICE DATA

ea. well

Type of Job At Intervals of

Bbls Fracturing Fluid Breakdown Pressure from psi to psi

Treating Pressures: Maximum psi Minimum psi Avg. Pump Rate GPM/BPM Close In psi

Sand Gals. Treating Acid Type Open Hole Diameter

Well Treating Through: Tubing Casing Annulus Size Weight

Remarks:

No. Perforations Pay Formation Name Depth of Job Ft.

## INVOICE SECTION

**CEMENTING**

| | | Office Use | $ |
|---|---|---|---|
| Pumping Charge Cement 2 wells | | | |
| Pumping Charge | @ 325.00 | | $ 650.00 |
| 206 Sacks Bulk Cement | @ 5.25 | | 1081.50 |
| Ton Mileage on Bulk Cement 65 | @ [illegible] | | 60.00 |
| 8 Sx Premium Gel | @ 6.90 | | 55.20 |
| Flo-Seal | @ | | |
| Calcium Chloride | @ | | |
| 2-2½ Plug | @ 8.50 | | 17.00 |
| | @ | | |
| Equipment | @ | | |
| | @ | | |
| | @ | | |
| | @ | | |
| | @ | | |
| | @ | | |
| Granulated Salt | @ | | |
| Transport Truck ( Hrs.) | @ | | |
| Vac Truck ( — Hrs.) | @ | | |
| Town Water | @ | | |
| | | Tax | 68.07 |
| | | Total | $ 1931.77 |

**FRACTURING - ACIDIZING**

| | | Office Use | $ |
|---|---|---|---|
| Pumping Charge | | | |
| Pumping Charge | @ | | |
| 12x30 Sand | @ | | |
| 10x20 Sand | @ | | |
| x Sand | @ | | |
| Ton Mileage | @ | | |
| Gals., Acid | @ | | |
| Chemicals | @ | | |
| # 42-W 114 sx | @ | | |
| # 47-W - 92 sx | @ | | |
| | @ | | |
| | @ | | |
| Potassium Chloride | @ | | |
| Rock Salt | @ | | |
| Water Gel | @ | | |
| Transport Truck ( Hrs.) | @ | | |
| Vac Truck ( Hrs.) | @ | | |
| | @ | | |
| | | Tax | |
| | | Total | $ |

A Finance Charge computed at 1¾% per month (annual percentage rate of 21%) will be added to balance over 30 days.

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MO Oil & Gas Council

13320

NSCO-18936

# CONSOLIDATED OIL WELL SERVICES, INC.

P.O. Box 884
Chanute, Kansas 66
Phone (316) 431-92

**Ticket** 15843

| Date | Customer's Acct. No. | Sec. | Twp. | Range |
|---|---|---|---|---|
| 12-4-92 | 7823 | 4 | 46 | 33 |

Charge To: TOWN OIL

Mailing Address: R#4

City & State: PAOLA KS 66071

Well Name and Number: WALTON #27-W

Representative: TUCSON Guinolle

Order Number:

County/State: CASS MO

Formation:

Type Treatment: gel water FRAC

TYPE OF WELL: ☐ OIL ☒ WATER INJ. ☐ GAS ☐ WATER DIS. ☐ OTHER

TYPE OF COMPLETION: ☒ NEW ☐ RE-COMPLETION ☐ REWORK ☐ OTHER

**WELL DATA**

| | SIZE | WGT. | SET FROM | TO | CAPACITY |
|---|---|---|---|---|---|
| TUBING | 2 7/8" EUE 8 | | 558 | 572 | 4 BBL's |
| CASING | | | | | |
| ANNULUS | | | | | |
| OPEN HOLE | | | | | |

**MATERIALS AND CONCENTRATION**

| TIME A.M./P.M. | INJ. RATE | BBLS. PUMPED | PROP. PPG. | P |
|---|---|---|---|---|
| | | | | |

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**TREATMENT FLUIDS**

| | BBLS | TYPE |
|---|---|---|
| FILL HOLE | 1 | gel water |
| BREAKDOWN | 3 | |
| PAD | 10 | |
| TREATING | 42 | |
| FLUSH | 4 | |
| OVERFLUSH | 10 | |
| TOTAL | 70 | |

**TREATMENT SUMMARY**

| PRESSURE - MIN. | MAX. | AVG. |
|---|---|---|
| 800 | 1200 | |
| INJ. RATE - TREAT | FLUSH | AVG. |
| 20 Bpm | | |
| HYDRAULIC HP USED | I.S.I.P. | FINAL |
| 1000 | | 200 |
| PERFORATIONS | | |
| 20 shots | ~~200~~ | 1600 Brk |

**EXPLANATION**

ARRIVE LOCATION _____ ROUND TRIP MILES

1st 50 wells

Pumping Charge INI

**FRACTURING - ACIDIZING**

| | | Office Use | |
|---|---|---|---|
| Pumping Charge | @ | | $ 850 |
| 5 sks 12x30 Sand | @ | | 32.50 |
| 15 sks 10x20 Sand | @ | | 103.50 |
| x Sand | @ | | |
| Ton Mileage 120 | @ | | 60 |
| ~~Gals., Acid~~ | @ | | |
| ~~Chemicals~~ | @ | | |
| Had Their own Clay-stay | @ | | |
| | @ | | |
| | @ | | |
| | @ | | |
| | @ | | |
| ~~Potassium Chloride~~ | @ | | |
| 1 sk Rock Salt #50 | @ | | 6.00 |
| 1 sk Water Gel #50 | @ | | 125.00 |
| Transport Truck ( 3 Hrs.) | @ | | 162.00 |
| Vac Truck ( Hrs.) | @ | | |
| | | Tax | |
| | | Total | $ 1339.00 |

134159

A Finance Charge computed at 1¾% per month (annual percentage rate of 21%) will be added to balance over 30 days.

# Short Cuts

## TANK CAPACITY

BBLS. (42 gal.) equals $D^2 x.14xh$

D equals diameter in feet.

h equals height in feet.

---

## BARRELS PER DAY

Multiply gals. per minute x 34.2

---

HP equals BPH x PSI x .0004

BPH — barrels per hour

PSI — pounds square inch

---

## TO FIGURE PUMP DRIVES

* D — Diameter of Pump Sheave
* d — Diameter of Engine Sheave

SPM — Strokes per Minute

RPM — Engine Speed

R — Gear Box Ratio

* C — Shaft Center Distance

D — RPMxd over SPMxR

d — SPMxRxD over RPM

SPM — RPMxD over RxD

R — RPMxd over SPMxD

BELT LENGTH — $2C + 1.57(D + d) + \frac{(D - d)^2}{4C}$

*Need these to figure belt length

TO FIGURE AMPS: $\frac{\text{WATTS}}{\text{VOLTS}} = \text{AMPS}$

746 WATTS equal 1 HP

typed

# Log Book

Well No. 27-W

Farm WALTON

(State) (County)

(Section) (Township) (Range)

For

(Well Owner)

5 of 42 W
Location

# TOWN OIL CO.

*Route 4*
*Paola, Kansas 66071*
*913-294-2125*

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MO Oil & Gas Council

Walton Farm: _____ County

MO State; Well No. _____

Elevation _____

Commenced Spuding 10-9, 19 92

Finished Drilling 10-13, 19 92

Driller's Name _____

Driller's Name Haggard

Driller's Name _____

Tool Dresser's Name _____

Tool Dresser's Name Brant

Tool Dresser's Name _____

Contractor's Name _____

(Section) (Township) (Range)

Distance from _____ line, _____ ft.

Distance from _____ line, _____ ft.

5 5/8 Hole

## CASING AND TUBING RECORD

3 Sacks Cement

| | | | |
|---|---|---|---|
| 10" Set | | 10" Pulled | |
| 8" Set | | 8" Pulled | |
| 6¼" Set | 22'6 | 6¼" Pulled | |
| 4" Set | | 4" Pulled | |
| 2" Set | | 2" Pulled | |

## CASING AND TUBING MEASUREMENTS

| Feet | In. | Feet | In. | Feet | In. |
|---|---|---|---|---|---|
| 31 | 80 | 439 | 90 | | |
| 30 | 00 | 30 | 20 | | |
| 61 | 80 | 470 | 60 | | |
| 31 | 80 | 31 | 20 | | |
| 93 | 60 | 502 | 30 | | |
| 32 | 00 | 31 | 80 | | |
| 125 | 60 | 534 | 10 | | |
| 31 | 90 | 31 | 20 | | |
| 157 | 50 | 565 | 30 | | |
| 31 | 20 | 30 | 50 | | |
| 189 | 40 | 595 | 80 | | |
| 30 | 70 | 31 | 00 | | |
| 220 | 10 | | | | |
| 30 | 80 | 31 | 20 | | |
| 250 | 90 | | | | |
| 32 | 70 | | | | |
| 283 | 60 | | | | |
| 31 | 30 | | | | |
| 314 | 90 | | | | |
| 31 | 60 | | | | |
| 346 | 50 | | | | |
| 31 | 60 | | | | |
| 378 | 10 | | | | |
| 31 | 70 | | | | |
| 409 | 80 | | | | |
| 30 | 10 | | | | |

439.90



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| Thickness of Strata | Formation | Total Depth | Remarks |
|---|---|---|---|
| 0-4 | soild clay | 4 | |
| 5 | Lime | 9 | |
| 34 | SHALE | 43 | |
| 10 | LIME | 53 | |
| 16 | SHALE | 69 | |
| 6 | Red Bed | 75 | |
| 5 | SHALE | 80 | |
| 6 | LIME | 86 | |
| 31 | SHALE | 117 | |
| 1 | LIME | 118 | |
| 12 | SHALE | 130 | |
| 2 | LIME | 132 | |
| 6 | SHALE | 138 | |
| 30 | LIME | 168 | Winterset |
| 7 | SHALE & SLATE | 175 | |
| 20 | LIME | 195 | Bethany Falls |
| 5 | Shale & SLATE | 200 | |
| 2 | LIME | 202 | KC - Sinchar |
| 3 | SHALE & SLATE | 205 | |
| 7 | LIME | 212 | Hertha |
| 3 | SHALE shells | 215 | |
| 4 | SAND | 219 | |
| 34 | SHALE | 253 | |
| 10 | SAND | 263 | |
| 46 | SHALE | 309 | |
| 14 | SAND | 323 | |





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MO Oil & Gas Council

323 240

| Thickness of Strata | Formation | Total Depth | Remarks |
|---|---|---|---|
| 22 | SHALE | 345 | |
| 10 | SAND | 355 | |
| 6 | SHALE | 361 | |
| 4 | SANDYSHALE | 365 | |
| 8 | SHALE | 373 | |
| 4 | SAND | 377 | |
| 18 | SHALE | 395 | |
| 5 | LIME | 400 | |
| 6 | SHALE | 406 | |
| 3 | LIME | 409 | |
| 8 | SHALE | 417 | |
| 10 | LIME | 427 | LT brown sand |
| 4 | SAND | 431 | |
| 12 | SHALE | 443 | |
| 4 | LIME | 447 | |
| 4 | SAND | 451 | LT oil show |
| 2 | LIME | 453 | |
| 20 | SHALE | 473 | shells |
| 7 | SAND | 480 | gray. No show |
| 27 | SHALE | 507 | |
| 4 | SAND | 511 | Gray No show |
| 10 | SAND | 521 | LT oil show |
| per ↓ Bleeding v. sand 30 | SAND | 551 | poor, good oil show |
| 2 | sandy lime | 553 | oil show |
| 5 | sandy shells | 558 | |
| 5 | SHALE | 563 | |





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MO Oil & Gas Council

| Thickness of Strata | Formation | Total Depth | Remarks (SOFT) |
|---|---|---|---|
| | | 563 | |
| 24 | SAND | 587 | Pool's V good oil show |
| 1 | LIME | 588 | |
| 22 | SAND | 610 | |
| | | | |
| | 610 T.D | | |
| | | | |
| | | | |
| 1 | JT 6 1/4 | 20'6 | |
| 3 | SACKS Cement | | |
| 1 | Pit | | |
| No | Cores | | |
| 1 | HR on 2 7/8 pipe | | |





RECEIVED
JUL 09 1993
MO Oil & Gas Council

# MECHANICAL INTEGRITY TEST REPORT

Test Date: 8-29-03 and 9-3-03

Operator: TOWN OIL COMPANY
Contact Person: Lester Town
Address: 16205 West 287th St. Paola, Ks. 66071
Phone: 913-294-2125

Lease WALTON Well # 27-W
County CASS Permit # 20553

TEST INFORMATION:

Type MIT: Pressure ✓ Radioactive Tracer Survey___ Temperature Survey___

| | Run #1 | Run #2 | Run #3 |
|---|---|---|---|
| Start Time: | 10:02 am | | |
| End Time: | 11:45 am | | |
| Length of Test: (Start Time minus End Time) | 1hr 43 min | | |
| Initial Pressure (PSI): | 100# | | |
| Ending Pressure (PSI): | 92# | | |
| Pressure Change: (Initial Pressure minus Ending Pressure) | -8# | | |

Fluid used for test (water, nitrogen, CO2, ect.): Air

Comments about test:
Perfs 558' Water Column 231' 99# calculated
Fluid depression test

The bottom of the tested zone is shut in with float shoe and cement at a depth of 558' ft. In signing the form below, it is certified that the above indicated well was tested for mechanical integrity on the date shown at the top of this page.

Signed: Stuby P. Hamilton — Operator Contact Person or Approved Agent
EOR — Title

DO NOT WRITE BELOW THIS LINE

Results were: Satisfactory ✓ Not Satisfactory___
State Agent: ___ Witnessed: Yes ✓ No___
REMARKS: Witnessed by Ted Fritz EPA 9-3-03
Computer Update___ FILE WITH PERMIT!

OGC Misc Form 1

# MECHANICAL INTEGRITY TEST REPORT

Test Date: 8/19/98

Operator: TOWN OIL COMPANY
Contact Person: Lester Town
Address: 16205 West 287th St. Paola, Ks. 66071
Phone: 913-294-2125

Lease WALTON Well # 27-W
County CASS Permit # 20553

TEST INFORMATION:

Type MIT: Pressure ✓ Radioactive Tracer Survey___ Temperature Survey___

| | Run #1 | Run #2 | Run #3 |
|---|---|---|---|
| Start Time: | 12:40 pm | | |
| End Time: | 1:10 pm | | |
| Length of Test: (Start Time minus End Time) | 30 min | | |
| Initial Pressure (PSI): | 133# | | |
| Ending Pressure (PSI): | 120# | | |
| Pressure Change: (Initial Pressure minus Ending Pressure) | 13# | | |

Fluid used for test (water, nitrogen, CO2, ect.): air

Comments about test: 250' to water
perf 558'
308' x .433 = 133#

The bottom of the tested zone is shut in with float shoe & cement at a depth of 558' ft. In signing the form below, it is certified that the above indicated well was tested for mechanical integrity on the date shown at the top of this page.

Signed: Sterling P. Hamenuke — E&R
Operator Contact Person or Approved Agent — Title

DO NOT WRITE BELOW THIS LINE

Results were: Satisfactory ✓ Not Satisfactory___
State Agent: Theodore R Fitz Witnessed: Yes ✓ No___
REMARKS:
Computer Update CAS FILE WITH PERMIT!

OGC Misc Form 1

# MECHANICAL INTEGRITY TEST REPORT

Test Date: 10 Aug 1993

Operator: Town Oil Co.
Contact Person: Lester Town
Address: 16205 West 287th St. Paola, Kansas 66071
Phone: 913-294-2125

Lease WALTON Well # 27-W
County CASS Permit # 20553

TEST INFORMATION:

Type MIT: Pressure___ Radioactive Tracer Survey___ Temperature Survey___

| | Run #1 | Run #2 | Run #3 |
|---|---|---|---|
| Start Time: | 12:25 | | |
| End Time: | 13:00 | | |
| Length of Test: (Start Time minus End Time) | 35 min | | |
| Initial Pressure (PSI): | 80# | | |
| Ending Pressure (PSI): | 80# | | |
| Pressure Change: (Initial Pressure minus Ending Pressure) | | | |

Fluid used for test (water, nitrogen, CO2, ect.): Air

Comments about test: Perf 558 - 572 Fluid Depression Test
186' of fluid above Perfs x .43 = 80#

The bottom of the tested zone is shut in with Float Shoe & Cement at a depth of 558 ft. In signing the form below, it is certified that the above indicated well was tested for mechanical integrity on the date shown at the top of this page.

Signed: Sterling P. Hambuckle — Operator Contact Person or Approved Agent

EOR — Title

DO NOT WRITE BELOW THIS LINE

Results were: Satisfactory ✓ Not Satisfactory___
State Agent: E. Kip Witnessed: Yes___ No ✓
REMARKS:
Computer Update 9/7/93 EK

FILE WITH PERMIT!

OGC Misc Form 1

CASING MECHANICAL INTEGRITY TEST

DOCKET # _____

Disposal [ ] Enhanced Recovery: _____ _____ _____, Sec 4, T 46 S, R 33 E/W

Repressuring [X]
Flood [X]
Tertiary [ ]

1860 Feet from ~~South~~ North Section Line
2685 Feet from ~~East~~ West Section Line

Date injection started _____
API #15 — —

Lease WALTON Well # 27-W
County CASS CO. MO.

Operator: TOWN OIL
Name & Address Rt 4
PAOLA, KAN 66071

Operator License # _____

Contact Person Lester Town

Phone 913 294 2125

Max. Auth. Injection Press. _____ psi; Max. Inj. Rate _____ bbl/d;
If Dual Completion - Injection above production _____ Injection below production _____

| | Conductor | Surface | Production | Liner | Tubing |
|---|---|---|---|---|---|
| Size | | 6¼ | 2⅞ | | Size |
| Set at | | 20 | 588 | | Set at |
| Cement Top | | 0 | 0 | | Type |
| " Bottom | | 20 | 588 | | |

DV/Perf. _____ TD (and plug back) 588 ft. depth
Packer type _____ Size _____ Set at _____
Zone of injection 552 ft. to ft. 578 Perf. or open hole _____

Type Mit: Pressure [X] Radioactive Tracer Survey [ ] Temperature Survey [ ]

FIELD DATA

Time: Start 1:15 Min. 1:30 Min. _____ Min.

Pressures: 710# 710# _____ Set up 1 | System Pres. during test _____

_____ _____ _____ Set up 2 | Annular Pres. during test _____

_____ _____ _____ Set up 3 | Fluid loss during test _____ bbls.

Tested: Casing [X] or Casing - Tubing Annulus [ ]

The bottom of the tested zone is shut in with Float Shoe & Cement

Test Date 23 Oct 92 Using TOWN OIL _____ Company's Equipment

The operator hereby certifies that the zone between 0 feet and 588 feet

was the zone tested Sterling P. Homemble (Signature) EDR (Title)

The results were Satisfactory +, Marginal _____, Not Satisfactory _____

State Agent _____ Title _____ Witness: Yes ____ No ____

REMARKS: _____

[ ] Orgin. Conservation Div.; [ ] KDHE/T; [ ] Dist. Office;

[ ] Computer Update

KCC Form U-7 6/84

MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

# INJECTION WELL MONITORING REPORT

FORM 2010-9

TOTAL P.02

INSTRUCTIONS ▸ RECORD INJECTION RATE AND INJECTION PRESSURE AT LEAST MONTHLY WITH THE RESULTS SUBMITTED ANNUALLY.

| COUNTY | PERMIT NUMBER | OPERATOR | WELL NUMBER |
|---|---|---|---|
| Cass | 037 20553 | Town Oil Co. | Walton 27-W |

| MONTH | INJECTION RATE - bpd/gpm | INJECTION PRESSURE - psig | DATE MEASUREMENT TAKEN | REMARKS |
|---|---|---|---|---|
| (01) JAN. | 86 | 300 | 1-28-06 | |
| (02) FEB. | 86 | | 2-28-06 | |
| (03) MARCH | 86 | | 3-28-06 | |
| (04) APRIL | 86 | | 4-28-06 | |
| (05) MAY | 86 | | 5-28-06 | |
| (06) JUNE | 86 | | 6-28-06 | |
| (07) JULY | 86 | | 7-28-06 | |
| (08) AUG. | 86 | | 8-28-06 | |
| (09) SEPT. | 86 | | 9-28-06 | RECEIVED |
| (10) OCT. | 86 | | 10-28-06 | AUG 24 2007 |
| (11) NOV. | 86 | | 11-28-06 | |
| (12) DEC. | 86 | | 12-28-06 | Oil & Gas Counc |

MO 780-0308 (6-06)

REMIT TWO (2) COPIES TO: GEOLOGICAL SURVEY PROGRAM, P.O. BOX 250, ROLLA, MO 65402, (573) 368-2143
ONE (1) COPY WILL BE RETURNED

MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

# INJECTION WELL MONITORING REPORT

FORM OGC-12

**INSTRUCTIONS** ▸ RECORD INJECTION RATE AND INJECTION PRESSURE AT LEAST MONTHLY WITH THE RESULTS SUBMITTED ANNUALLY.

| COUNTY | PERMIT NUMBER | OPERATOR | WELL NUMBER |
|---|---|---|---|
| CASS | 20553 | TOWN OIL COMPANY | WALTON 27-W |

| MONTH | INJECTION RATE - bpd/gpm | INJECTION PRESSURE - psig | DATE MEASUREMENT TAKEN | REMARKS |
|---|---|---|---|---|
| (01) JAN. | 86 | 300 | 1-31-08 | RECEIVED |
| (02) FEB. | 86 | 300 | 2-28-08 | JAN 23 2009 |
| (03) MARCH | 86 | 300 | 3-31-08 | Mo Oil & Gas Council |
| (04) APRIL | 86 | 300 | 4-30-08 | |
| (05) MAY | 86 | 300 | 5-31-08 | |
| (06) JUNE | 86 | 300 | 6-30-08 | |
| (07) JULY | 86 | 300 | 7-31-08 | |
| (08) AUG. | 86 | 300 | 8-31-08 | |
| (09) SEPT. | 86 | 300 | 9-30-08 | |
| (10) OCT. | 86 | 300 | 10-31-08 | |
| (11) NOV. | 86 | 300 | 11-30-08 | |
| (12) DEC. | 86 | 300 | 12-31-08 | |

MO 780-0208 (8-06)

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GEOLOGICAL SURVEY PROGRAM

FORM OGC-12

# INJECTION WELL MONITORING REPORT

**INSTRUCTIONS** ▸ RECORD INJECTION RATE AND INJECTION PRESSURE AT LEAST MONTHLY WITH THE RESULTS SUBMITTED ANNUALLY.

| COUNTY | PERMIT NUMBER | OPERATOR | WELL NUMBER |
|---|---|---|---|
| CASS | 20553 | TOWN OIL COMPANY | WALTON 27-W |

| MONTH | INJECTION RATE - bpd/gpm | INJECTION PRESSURE - psig | DATE MEASUREMENT TAKEN | REMARKS |
|---|---|---|---|---|
| (01) JAN. | 86 | 300 | 1-31-09 | RECEIVED |
| (02) FEB. | 86 | 300 | 2-28-09 | JAN 25 2010 |
| (03) MARCH | 86 | 300 | 3-31-09 | Mo Oil & Gas Council |
| (04) APRIL | 86 | 300 | 4-30-09 | |
| (05) MAY | 86 | 300 | 5-31-09 | |
| (06) JUNE | 86 | 300 | 6-30-09 | |
| (07) JULY | 86 | 300 | 7-31-09 | |
| (08) AUG. | 86 | 300 | 8-31-09 | |
| (09) SEPT. | 86 | 300 | 9-30-09 | |
| (10) OCT. | 86 | 300 | 10-31-09 | |
| (11) NOV. | 86 | 300 | 11-30-09 | |
| (12) DEC. | 86 | 300 | 12-31-09 | |

MO 780-0208 (8-06)

REMIT TWO (2) COPIES TO: GEOLOGICAL SURVEY PROGRAM, P.O. BOX 250, ROLLA MO 65402, (573) 368-2143
ONE (1) COPY WILL BE RETURNED

Permit #: 20553

Date Issued: 10-23-92

County: Coss

Date Cancelled:

CONFIDENTIAL UNTIL:

Date Plugged:

| OGC FORMS | Date Received |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 3i | 10-5-92 |
| 4 | |
| 4i | |
| 5 | 7-9-93 |
| 6 | |
| 7 | |
| 8 | |
| 11 | |
| 12 | |
| Misc. Form 2 | |

COMMENTS:

| | TYPE | ID # | Date Received |
|---|---|---|---|
| Logs | well log | | 7-9-93 |
| | | | |
| | | | |
| | | | |
| Samples | chip | | |
| | core | | |
| Analyses | water | | |
| | core | | |

Additional Submitted Data:

MIT 8-10-93

Missouri Oil and Gas Council

Form OGC-3I

**INJECTION WELL PERMIT APPLICATION:** to drill, deepen, plug back, or convert an existing well

**APPLICATION TO DRILL** ☒ **DEEPEN** ☐ **PLUG BACK** ☐ **CONVERSION** ☐

NAME OF COMPANY OR OPERATOR Town Oil Co. DATE 10-1-92

Rt. 4 (Address) Paola (City) Kansas 66071 (State)

**DESCRIPTION OF WELL AND LEASE**

| Name of lease | Well number | Elevation (ground) |
|---|---|---|
| Walton | 27-W | approx 1050' |

WELL LOCATION (give footage from section lines) 1860 ft. from (N) ~~(S)~~ sec line 2685 ft. from ~~(E)~~ (W) sec line

WELL LOCATION Section 4 Township 46 Range 33 COUNTY Cass

Nearest distance from proposed location to property or lease line 675 feet

Distance from proposed location to nearest drilling, completed or applied — for well on the same lease 165 feet

| Proposed depth | Rotary or Cable tools | Drilling Contractor, name and address | Approx. date work will start |
|---|---|---|---|
| 600 | Rotary | Company tools | When approved |

Number of acres in lease: approx 80

Number of wells on lease, including this well, completed in or drilling to this reservoir: 33

Number of abandoned wells on lease: 0

If lease purchased with one or more wells drilled, from whom purchased?

Name Harry Knoche

Address Belton, MO.

No of Wells: producing 27, injection 6, inactive 0, abandoned 0

Status of Bond

Single Well ☐ Amt. _____ Blanket Bond ☒ Amt. 20,000 ☒ ON FILE ☐ ATTACHED

Outline Proposed Stimulation Program

Water injection and secondary recovery

Proposed casing program

| amt. | size | wt/ft | cem. |
|---|---|---|---|
| 600 | 2" | 3.75 | to surface |

Approved casing — To be filled in by State Geologist

| amt. | size | wt/ft | cem. |
|---|---|---|---|
| 600 | 2" | 3.75 | to surface |

I, the undersigned, state that I am the Partner of the Town Oil Co. (company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature Lisby Town

Permit Number 20553

Approved Date 10/23/92

Approved by [illegible]

☐ SAMPLES REQUIRED ☑ SAMPLES NOT REQUIRED

WATER SAMPLES REQUIRED @ _____

Note: This Permit not transferable to any other person or to any other location.

Remit two copies to: Missouri Oil and Gas Council, P.O. Box 250, Rolla, MO 65401

One will be returned for driller's signature

*Approval of this permit by the Oil and Gas Council does not constitute endorsement of the geologic merits of the proposed well nor endorsement of the qualifications of the permittee.*

3/12/82

I Lester Town of the Town Oil Co.

Company confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized Council representative.

Driller's signature Lester Town

Date 10-1-92

**Proposed Operations Data**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Proposed average daily injection, | pressure | 400 | psig, | rate | 25 | bpd/gpm, | volume | 300 bbl/gal |
| Approved average daily injection, (to be filled in by State Geologist). | pressure | | psig, | rate | | bpd/gpm, | volume | bbl/gal |
| Proposed maximum daily injection, | pressure | 600 | psig, | rate | 50 | bpd/gpm, | volume | 1000 bbl/gal |
| Approved maximum daily injection, (to be filled in by State Geologist). | pressure | | psig, | rate | | bpd/gpm, | volume | bbl/gal |

Estimated fracture pressure/gradient of injection zone Breakdown 800 psi/foot

Describe the source of the injection fluid produced and fresh water

Submit an appropriate analysis of the injection fluid. (Submit on separate sheet).
See water analysis report

Describe the compatibility of the proposed injected fluid with that of the receiving formations, including total dissolved solids comparisons.

Same

Give an accurate description of the injection zone including lithologic descriptions, geologic name, thickness, depth, porosity, and permeability.

Cattleman sand, approx. 25' thick, 542 to 579
Porosity 21.8; permsability 47

Give an accurate description of the confining zones including lithologic description, geologic name, thickness, depth, porosity, and permeability.

Sandy shale and sandy lime imp

Submit all available logging and testing data on the well.

Give a detailed description of any well needing corrective action which penetrates the injection zone in the area of review (½ mile radius around well). Include the reason for and proposed corrective action.

None

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OCT 05 1992
MO Oil & Gas Council

MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL

Form OGC-5

# WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☒ INJECTION ☐ SAME RESERVOIR ☐ DIFFERENT RESERVOIR ☐ OIL ☐ GAS ☐ DRY

| | |
|---|---|
| OWNER: Town Oil Co. | ADDRESS: 16205 W. 287 Paola, KS. 66071 |
| LEASE NAME: Walton | WELL NUMBER: 27W |
| LOCATION: 1860' FNL 2685 FWL | SEC. TWP. AND RANGE OR BLOCK AND SURVEY: 4-46-33 |
| COUNTY: Cass | PERMIT NUMBER (OGC-3 OR OGC-3I): 20553 |
| DATE SPUDDED: 10-9-92 | DATE TOTAL DEPTH REACHED: 10-13-92 |
| DATE COMPLETED READY TO PRODUCE OR INJECT: 12-14-92 | ELEVATION (DF, RKR, RT, OR Gr.) FEET: |
| ELEVATION OF CASING HD. FLANGE FEET: | TOTAL DEPTH: 610 |
| PLUG BACK TOTAL DEPTH: | PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION: Squirrel |
| ROTARY TOOLS USED (INTERVAL): 0 TO 610 | CABLE TOOLS USED (INTERVAL): |
| DRILLING FLUID USED: | WAS THIS WELL DIRECTIONALLY DRILLED? No |
| WAS DIRECTIONAL SURVEY MADE? | WAS COPY OF DIRECTIONAL SURVEY FILED? |
| DATE FILED: | TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST): Electric log attached |
| DATE FILED: | |

## CASING RECORD

CASING (REPORT ALL STRINGS SET IN WELL - CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.)

| PURPOSE | SIZE HOLE DRILLED | SIZE CASING SET | WEIGHT (LB. FT) | DEPTH SET | SACKS CEMENT | AMOUNT PULLED |
|---|---|---|---|---|---|---|
| Surface | 9 | 6¼ | | 20'6" | 3 | 0 |
| Completion | 5 5/8 | 2 7/8 | | 593' | 103 | 0 |
| | | | | | | |

## TUBING RECORD

| SIZE (IN.) | DEPTH SET (FEET) | PACKER SET AT (FEET) | SIZE (INCH) |
|---|---|---|---|
| | | | |

## LINER RECORD

| TOP (FEET) | BOTTOM (FEET) | SACKS CEMENT | SCREEN (FEET) |
|---|---|---|---|
| | | | |

## PERFORATION RECORD

| NUMBER PER FEET | SIZE AND TYPE | DEPTH INTERVAL |
|---|---|---|
| 1 per 9" | 2 1/8 alum | 558-572 |
| | | |

## ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

| AMOUNT AND KIND OF MATERIAL USED | DEPTH INTERVAL |
|---|---|
| 5 sx 12x30 sand<br>15 sx 10x20 sand | 558-572 |
| | |

## INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION: 12-20-92

PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING — IF PUMPING, SHOW SIZE AND TYPE OF PUMP.): Pumping 1½x4'

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | OIL PRODUCED DURING TEST (bbls.) | GAS PRODUCED DURING TEST (MCF) | WATER PRODUCED DURING TEST (bbls.) | OIL GRAVITY (API (CORR.)) |
|---|---|---|---|---|---|---|
| -- | -- | -- | -- | 0 | -- | 25 |

| TUBING PRESSURE | CASING PRESSURE | CAL'TED RATE OF PRODUCTION PER 24 HOURS | OIL (bbls.) | GAS (MCF) | WATER (bbls.) | GAS OIL RATIO |
|---|---|---|---|---|---|---|
| -- | -- | 2 bbls | 2 | 0 | 4 | 0 |

DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD):

METHOD OF DISPOSAL OF MUD PIT CONTENTS: Covered with dirt

**CERTIFICATE:** I, THE UNDERSIGNED, STATE THAT I AM THE partner OF THE Town Oil Co. COMPANY, AND THAT I AM AUTHORIZED BY SAID COMPANY TO MAKE THIS REPORT, AND THAT THIS REPORT WAS PREPARED UNDER MY SUPERVISION AND DIRECTION AND THAT THE FACTS STATED THEREIN ARE TRUE, CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

RECEIVED JUL 09 1993 MO Oil & Gas Council

DATE: June 8, 1993

SIGNATURE: Leslie Town

MO 780-0215 (1-86) (Rev. 1-86)

**INSTRUCTIONS:** ATTACH DRILLERS LOG OR OTHER ACCEPTABLE LOG OF WELL.

* SHOW ALL IMPORTANT ZONES OF POROSITY, DETAIL OF ALL CORES, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES.

**DETAIL OF FORMATIONS PENETRATED**

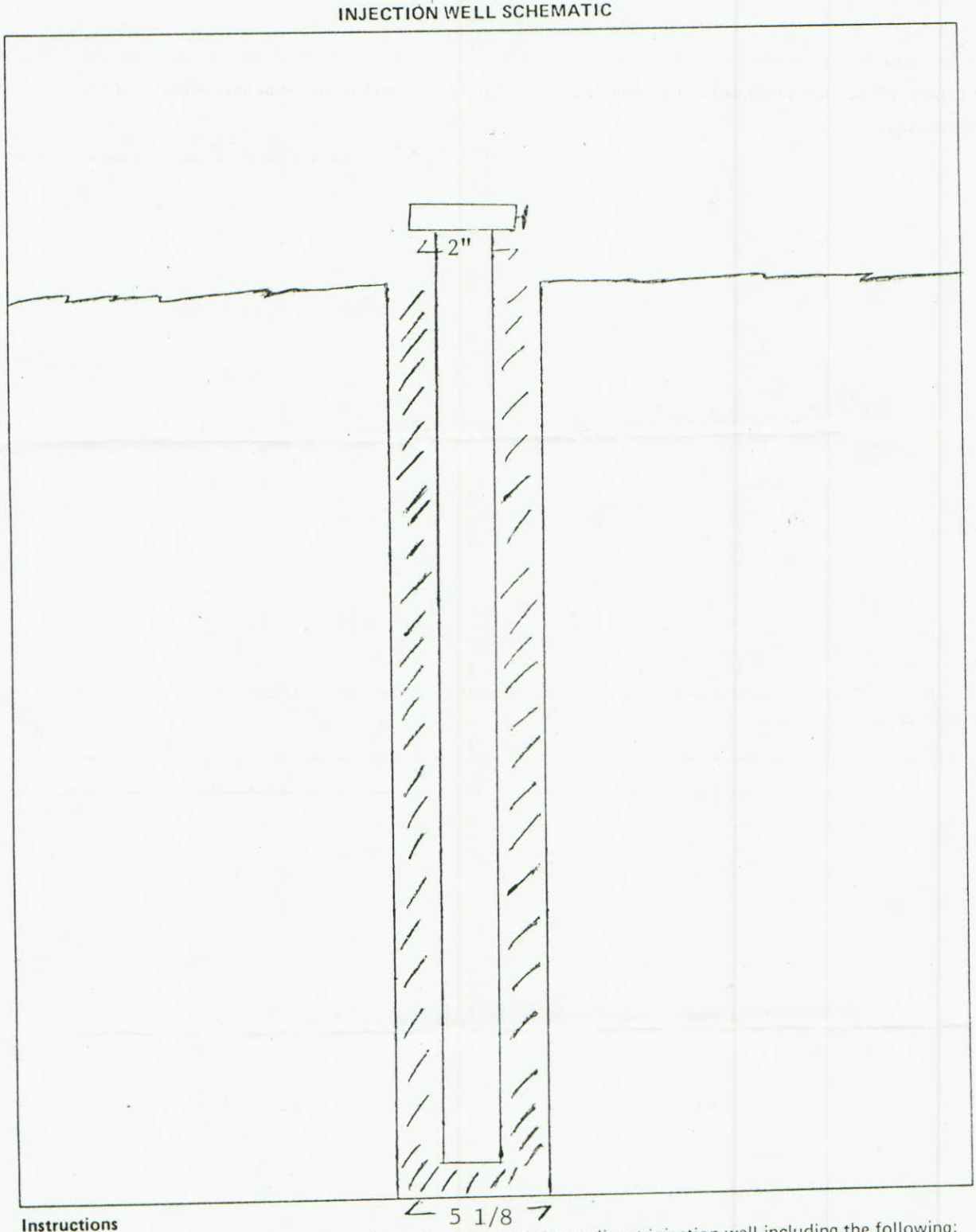
| FORMATION | TOP | BOTTOM | DESCRIPTION (SEE * ABOVE) |
|---|---|---|---|
| | | | |

County Cass Permit # _____ Operator ~~Town Oil Co.~~ Well # ~~27-W~~

Missouri Oil and Gas Council

Form OGC-11

INJECTION WELL SCHEMATIC




**Instructions**

On the above space draw a neat accurate schematic diagram of the applicant injection well including the following: configuration of well head, total depth or plug back total depth, depth of all injection or disposal intervals, and their formation names, lithology of all formations penetrated, depths of the tops and bottoms of all casing and tubing, size and grade of all casing and tubing, and the type and depth of packer, depth, location, and type of all cement, depth of all perforations and squeeze jobs, and geologic name and depth to bottom of all underground sources of drinking water which may be affected by the injection. Use back if additional space is needed, or attach sheet.

# TOWN OIL COMPANY

"Drilling and Production"

Route 4
Paola, Kansas 66071

913-294-2125

RECEIVED
JUL 09 1993
MO Oil & Gas Council

Well # 27-W
Farm: Walton
Cass County, MO.
Lease Owner: Town Oil Co.

WELL LOG

| Thickness of Strata | Formation | Total Depth | |
|---|---|---|---|
| 0-4 | Soil & clay | 4 | |
| 5 | Lime | 9 | |
| 34 | Shale | 43 | |
| 10 | Lime | 53 | |
| 16 | Shale | 69 | |
| 6 | Red bed | 75 | |
| 5 | Shale | 80 | |
| 6 | Lime | 86 | |
| 31 | Shale | 117 | |
| 1 | Lime | 118 | |
| 12 | Shale | 130 | |
| 2 | LIme | 132 | |
| 6 | Shale | 138 | |
| 30 | Lime | 168 | |
| 7 | Shale & slate | 175 | |
| 20 | Lime | 195 | |
| 5 | Shale & slate | 200 | |
| 2 | Lime | 202 | |
| 3 | Shale & slate | 205 | |
| 7 | Lime | 212 | Hertha |
| 3 | Shale shells | 215 | |
| 4 | Sand | 219 | |
| 34 | Shale | 253 | |
| 10 | Sand | 263 | |
| 46 | Shale | 309 | |
| 14 | Sand | 323 | |
| 22 | Shale | 345 | |
| 10 | Sand | 355 | |
| 6 | Shale | 361 | |
| 4 | Sandy shale | 365 | |
| 8 | Shale | 373 | |
| 4 | Sand | 377 | |
| 18 | Shale | 395 | |
| 5 | Lime | 400 | |
| 6 | Shale | 406 | |
| 3 | Lime | 409 | |
| 8 | Shale | 417 | |
| 10Lime | Lime | 427 | |
| 4 | Sand | 431 | |
| 12 | Shale | 443 | |
| 4 | Lime | 447 | |
| 4 | Sand | 451 | |
| 2 | LIme | 453 | |
| 20 | Shale | 473 | |
| 7 | Sand | 480 | |
| 27 | Shale | 507 | |
| 4 | Sand | 511 | |

Well # 27-W
Farm: Walton
Cass County, MO.
Lease Owner: Town Oil Co.

WELL LOG (cont'd)

| Thickness of Strata | Formation | Total Depth |
|---|---|---|
| 10 | Sand | 521 |
| 30 | Sand | 551 |
| 2 | Sandy lime | 553 |
| 5 | Sandy shells | 558 |
| 5 | Shale | 563 |
| 24 | Sand | 587 |
| 1 | Lime | 588 |
| 22 | Sand | 610 TD |

RECEIVED
JUL 09 1993
MO Oil & Gas Council

**AFFIDAVIT OF PUBLICATION**

STATE OF MISSOURI
COUNTY OF CASS, ss.

I, Mark E. Cox, being duly sworn, on oath, state that I am the Publisher of The Star-Herald a weekly newspaper of general circulation, printed and published continuously for a period of at least three years in the County of Cass, State aforesaid: and that said newspaper has complied with the provisions of Section 493.050, Revised Statutes of Missouri, 1979, as amended, and that the notice hereto annexed was published in said newspaper for weeks consecutively as follows:

**PUBLIC NOTICE**

Town Oil Company, Rt. 4, Paola, Kansas has applied for injection wells to be drilled to an approximate depth of 600 feet at the following locations:

| Number | Distance from North Line of Section | Distance from East Line of Section |
|---|---|---|
| 42-W | 1520' | 2763' |
| 27-W | 1860' | 2595' |
| 7-W | 1607' | 2050' |

Section 4, Township 46, Range 33, in Cass County, Missouri.

Written comments or request for additional information regarding such wells should be directed within fifteen (15) days of this notice to: State Geologist, Missouri Oil and Gas Council, P.O. Box 250, Rolla, Missouri 65401.

Oct. 8, 1992

October 8 1992
_____ 19____
_____ 19____
_____ 19____
_____ 19____
_____ 19____
_____ 19____

Fee: $ 43.50

Mark E. Cox
Publisher

Subscribed and sworn to before me this

8th day of October 1992

Witness my hand and official seal.

Dora E. Nation

DORA E. NATION
Notary Public - State of Missouri
Commissioned in Cass County
My Commission Expires May 5, 1993

RECEIVED
OCT 15 1992
MO Oil & Gas Council

| Record# | DATEAPPROV | CONAME | WELLNO | ELEVATION | ACTUALTD | TOWNSHIP | RANGE | SECTION | SURVEYLOC1 | SURVEYLOC2 | OGCNUMBER | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1416 | 04/25/84 | TOWN OIL CO. | 12W | 1065 | 612 | 46N | 33W | 04 | 1740 FNL | 1683 FEL | 20448 | INJECTION |
| 1417 | 04/24/84 | TOWN OIL CO. | 35W | 1055 | 619 | 46N | 33W | 04 | 330 FNL | 2413 FWL | 20435 | INJECTION |
| 1418 | 04/25/84 | TOWN OIL CO. | 10W | 1055 | 613 | 46N | 33W | 04 | 2080 FNL | 2667 FEL | 20456 | INJECTION |
| 1420 | 04/25/84 | TOWN OIL CO. | 11W | 1080 | 614 | 46N | 33W | 04 | 1160 FNL | 1682 FEL | 20454 | INJECTION |
| 1421 | 04/24/84 | TOWN OIL CO. | 25W | 1045 | 616 | 46N | 33W | 04 | 1275 FNL | 2696 FEL | 20430 | INJECTION |
| 1422 | 04/24/84 | TOWN OIL CO. | 23W | 1070 | 620 | 46N | 33W | 04 | 648 FNL | 2679 FEL | 20433 | INJECTION |
| 1423 | 04/25/84 | TOWN OIL CO. | 17W | 1080 | 622 | 46N | 33W | 04 | 1747 FNL | 1358 FEL | 20450 | INJECTION |
| 1424 | 04/25/84 | TOWN OIL CO. | 37W | 1065 | 610 | 46N | 33W | 04 | 30 FNL | 2679 FEL | 20442 | INJECTION |
| 1425 | 04/25/84 | TOWN OIL CO. | 7W | 1070 | 620 | 46N | 33W | 04 | 1607 FNL | 2050 FEL | 20452 | INJECTION |
| 1426 | 04/24/84 | TOWN OIL CO. | 28W | 1040 | 611 | 46N | 33W | 04 | 2399 FNL | 2538 FWL | 20428 | INJECTION |
| 1427 | 04/25/84 | TOWN OIL CO. | 16W | 1070 | 623 | 46N | 33W | 04 | 2067 FNL | 1358 FEL | 20444 | INJECTION |
| 1428 | 04/25/84 | TOWN OIL CO. | 32W | 1040 | 611 | 46N | 33W | 04 | 2105 FNL | 2250 FWL | 20438 | INJECTION |
| 1429 | 04/24/84 | TOWN OIL CO. | 26W | 1045 | 612 | 46N | 33W | 04 | 1545 FNL | 2180 FWL | 20426 | INJECTION |
| 1430 | 04/25/84 | TOWN OIL CO. | 9W | 1060 | 615 | 46N | 33W | 04 | 2025 FNL | 2341 FEL | 20453 | INJECTION |
| 1431 | 04/25/84 | TOWN OIL CO. | 33W | 1035 | 620 | 46N | 33W | 04 | 1860 FNL | 2425 FWL | 20437 | INJECTION |
| 1432 | 04/25/84 | TOWN OIL CO. | 13W | 1065 | 618 | 46N | 33W | 04 | 2060 FNL | 1683 FEL | 20447 | INJECTION |
| 1433 | 04/25/84 | TOWN OIL CO. | 38W | 1070 | 620 | 46N | 33W | 04 | 30 FNL | 2360 FEL | 20455 | INJECTION |
| 1434 | 04/25/84 | TOWN OIL CO. | 29W | 1040 | 612 | 46N | 33W | 04 | 2400 FNL | 2507 FEL | 20441 | INJECTION |
| 1435 | 04/24/84 | TOWN OIL CO. | 19W | 1085 | 626 | 46N | 33W | 04 | 1102 FNL | 1357 FEL | 20431 | INJECTION |
| 1436 | 04/25/84 | TOWN OIL CO. | 39W | 1070 | 619 | 46N | 33W | 04 | 30 FNL | 2042 FEL | 20458 | INJECTION |
| 1437 | 04/25/84 | TOWN OIL CO. | 14W | 1050 | 616 | 46N | 33W | 04 | 2413 FNL | 1683 FEL | 20445 | INJECTION |
| 1438 | 09/02/77 | TOWN OIL CO. | 8-W | 1075 | 614 | 46N | 33W | 04 | 1580 FNL | 1595 FEL | 20036 | INJECTION |
| 1439 | 04/24/84 | TOWN OIL CO. | 22W | 1070 | 0 | 46N | 33W | 04 | 648 FNL | 2362 FEL | 20432 | INJECTION |
| 1440 | 04/25/84 | TOWN OIL CO. | 30W | 1055 | 618 | 46N | 33W | 04 | 2406 FNL | 2167 FEL | 20440 | INJECTION |
| 1441 | 04/25/84 | TOWN OIL CO. | 31W | 1020 | 611 | 46N | 33W | 04 | 2395 FNL | 2185 FWL | 20439 | INJECTION |
| 1442 | 04/25/84 | TOWN OIL CO. | 20W | 1070 | 611 | 46N | 33W | 04 | 847 FNL | 2044 FEL | 20449 | INJECTION |
| 1443 | 04/25/84 | TOWN OIL CO. | 18W | 1085 | 617 | 46N | 33W | 04 | 1427 FNL | 1357 FEL | 20443 | INJECTION |
| 1444 | 04/24/84 | TOWN OIL CO. | 24W | 1055 | 613 | 46N | 33W | 04 | 1121 FNL | 2404 FWL | 20434 | INJECTION |
| 1445 | 04/25/84 | TOWN OIL CO. | 21W | 1075 | 617 | 46N | 33W | 04 | 330 FNL | 2043 FEL | 20457 | INJECTION |
| 1446 | 04/24/84 | TOWN OIL CO. | 27W | 1050 | 617 | 46N | 33W | 04 | 1860 FNL | 2685 FWL | 20427 | INJECTION |
| 1447 | 04/24/84 | TOWN OIL CO. | 34W | 1060 | 616 | 46N | 33W | 04 | 648 FNL | 2409 FWL | 20436 | INJECTION |
| 1448 | 04/25/84 | TOWN OIL CO. | 4W | 1065 | 0 | 46N | 33W | 04 | 965 FNL | 2514 FEL | 20451 | INJECTION |
| 1449 | 04/24/84 | TOWN OIL CO. | 36W | 1055 | 624 | 46N | 33W | 04 | 30 FNL | 2416 FWL | 20429 | INJECTION |
| 1450 | 04/25/84 | TOWN OIL CO. | 15W | 1050 | 621 | 46N | 33W | 04 | 2417 FNL | 1358 FEL | 20446 | INJECTION |
| 1524 | 10/20/80 | TOWN OIL CO. | 3-W | 1072 | 620 | 46N | 33W | 04 | 330 FNL | 2305 FEL | 20097 | INJECTION AC |
| 1525 | 10/20/80 | TOWN OIL CO. | 2-W | 1071 | 620 | 46N | 33W | 04 | 330 FNL | 2635 FEL | 20096 | INJECTION AC |
| 1533 | 03/10/76 | TOWN OIL CO. | T-1 | 1065 | 600 | 46N | 33W | 04 | 900 FNL | 2480 FWL | 20024 | INJECTION AC |
| 2014 | 03/05/76 | TOWN OIL CO. | 21 | 1028 | 575 | 46N | 33W | 04 | 2225 FNL | 2087 FEL | 20023 | PLUGGED |
| 3527 | 01/22/82 | TOWN OIL CO. | 32 | 0 | 600 | 46N | 33W | 04 | 1258 FNL | 1847 FEL | 20259 | PRODUCING |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3550 | 10/20/80 | TOWN OIL CO. | 26 | 1071 | 620 | 46N | 33W | 04 | 165 FNL | 2140 FEL | 20099 | PRODUCING |
| 3558 | 01/06/76 | TOWN OIL CO. | 20 | 1040 | 550 | 46N | 33W | 04 | 2229 FNL | 2383 FWL | 20022 | PRODUCING |
| 3560 | 01/06/80 | TOWN OIL CO. | 24 | 915 | 620 | 46N | 33W | 04 | 165 FNL | 1480 FEL | 20134 | PRODUCING |
| 3562 | 08/16/76 | TOWN OIL CO. | 22 | 1040 | 594 | 46N | 33W | 04 | 1413 FNL | 1775 FEL | 20032 | PRODUCING |
| 3566 | 09/02/77 | TOWN OIL CO. | 6-W | 1060 | 593 | 46N | 33W | 04 | 1555 FNL | 2330 FEL | 20037 | PRODUCING |
| 3568 | 09/02/77 | TOWN OIL CO. | 29 | 1071 | 608 | 46N | 33W | 04 | 495 FNL | 2140 FEL | 20038 | PRODUCING |
| 3594 | 01/06/81 | TOWN OIL CO. | 31 | 939 | 590 | 46N | 33W | 04 | 1261 FNL | 1517 FEL | 20135 | PRODUCING |
| 3600 | 10/20/80 | TOWN OIL CO. | 25 | 1060 | 620 | 46N | 33W | 04 | 165 FNL | 1810 FWL | 20098 | PRODUCING |
| 3604 | 01/22/82 | TOWN OIL CO. | 37 | 0 | 595 | 46N | 33W | 04 | 2221 FNL | 1518 FEL | 20260 | PRODUCING |
| 3609 | 01/22/82 | TOWN OIL CO. | 5W | 0 | 600 | 46N | 33W | 04 | 1201 FNL | 2200 FEL | 20261 | PRODUCING |
| 4346 | 01/17/83 | TOWN OIL CO. | 27 | 0 | 0 | 46N | 33W | 04 | 495 FNL | 2571 FEL | 20380 | PRODUCING |
| 4347 | 01/17/83 | TOWN OIL CO. | 28 | 0 | 0 | 46N | 33W | 04 | 495 FNL | 2521 FEL | 30381 | PRODUCING |

STATION Ottawa OPERATOR Fred Moder

# CONSOLIDATED OIL WELL SERVICES, INC.

P.O. Box 884
Chanute, Kansas 66720
Phone (316) 431-9210

**Ticket** 88384

| Date | Customer's Acct. No. | Sec. | Twp. | Range | Well No. & Farm | Place or Destination |
|---|---|---|---|---|---|---|
| 10-15-92 | 7823 | | | | Walton # 42-W & 47-W | Belton |

| Charge To | Owner | County |
|---|---|---|
| Town Oil Co | | Cass |

| Mailing Address | Contractor | State |
|---|---|---|
| Rt 4 | Company Tools | Mo |

| City & State | Well Owner Operator Contractor |
|---|---|
| Paola, KS | |

## CEMENTING SERVICE DATA

| TYPE OF JOB | | CASING | | HOLE DATA | | PLUGS AND HEAD | | PRESSURE | | CEMENT LEFT IN CASING | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Surface | | New | | Bore Size | 5 5/8 | Bottom | 1.5W | Circulating | 200# | Requested | |
| Production | ✓ | Used | — | | | Top | | Minimum | | Necessity | |
| Squeeze | | Size | 2 7/8 | Total Depth | 600' | Head | BV | Maximum | 600# | Measured | |
| Pumping | | Weight | | Cable Tool | | FLOAT EQUIPMENT | | Sacks Cement | 206 | | |
| Other | | Depth | 585, 595 | | | Pin | | Type & Brand | Portland A. Poz Mix | | |
| | | Type | | Rotary | AIR | | | Admixes | 2% Gel 2 Gel Alond | | |

## FRACTURING - ACIDIZING SERVICE DATA

ea. well

Type of Job — At Intervals of

Bbls Fracturing Fluid — Breakdown Pressure from — psi to — psi

Treating Pressures: Maximum — psi — Minimum — psi — Avg. Pump Rate — GPM/BPM — Close In — psi

Sand — Gals. Treating Acid — Type — Open Hole Diameter

Well Treating Through: Tubing — Casing — Annulus — Size — Weight

Remarks:

No. Perforations — Pay Formation Name — Depth of Job — Ft.

## INVOICE SECTION

**CEMENTING**

| | | Office Use | $ |
|---|---|---|---|
| Pumping Charge Cement 2 wells | | | |
| Pumping Charge | @ 325.00 | | $ 650.00 |
| 206 Sacks Bulk Cement | @ 5.25 | | 1081.50 |
| Ton Mileage on Bulk Cement 65 | @ min | | 60.00 |
| 8 Sx Premium Gel | @ 6.90 | | 55.20 |
| Flo-Seal | @ | | |
| Calcium Chloride | @ | | |
| 2-2½ Plug | @ 8.50 | | 17.00 |
| | @ | | |
| Equipment | @ | | |
| | @ | | |
| | @ | | |
| | @ | | |
| | @ | | |
| | @ | | |
| Granulated Salt | @ | | |
| Transport Truck ( Hrs.) | @ | | |
| Vac Truck ( — Hrs.) | @ | | |
| Town Water | @ | | |
| | | Tax | 68.07 |
| | | Total | $ 1931.77 |

**FRACTURING - ACIDIZING**

| | | Office Use | $ |
|---|---|---|---|
| Pumping Charge | | | |
| Pumping Charge | @ | | |
| 12x30 Sand | @ | | |
| 10x20 Sand | @ | | |
| x Sand | @ | | |
| Ton Mileage | @ | | |
| Gals., Acid | @ | | |
| Chemicals | @ | | |
| # 42-W 114 sx | @ | | |
| # 47-W - 92 sx | @ | | |
| | @ | | |
| | @ | | |
| | @ | | |
| Potassium Chloride | @ | | |
| Rock Salt | @ | | |
| Water Gel | @ | | |
| Transport Truck ( Hrs.) | @ | | |
| Vac Truck ( Hrs.) | @ | | |
| | @ | | |
| | | Tax | |
| | | Total | $ |

A Finance Charge computed at 1¾% per month (annual percentage rate of 21%) will be added to balance over 30 days.

13320

RECEIVED
JUL 09 1993
MO Oil & Gas Council

NSCO-18936

# CONSOLIDATED OIL WELL SERVICES, INC.

P.O. Box 884
Chanute, Kansas 66
Phone (316) 431-92

**Ticket** 15843

| Date | Customer's Acct. No. | Sec. | Twp. | Range |
|---|---|---|---|---|
| 12-4-92 | 7823 | 4 | 46 | 33 |

Charge To: TOWN OIL

Well Name and Number: WALTON #27-W

Mailing Address: R#4

Representative:

City & State: PAOLA KS 66071

County/State: CASS MO

Formation:

Order Number: TUCSON Guinolle

Type Treatment: gel water FRAC

TYPE OF WELL: ☐ OIL ☒ WATER INJ. ☐ GAS ☐ WATER DIS. ☐ OTHER

TYPE OF COMPLETION: ☒ NEW ☐ RE-COMPLETION ☐ REWORK ☐ OTHER

**WELL DATA**

| | SIZE | WGT. | SET FROM | TO | CAPACITY |
|---|---|---|---|---|---|
| TUBING | 2 7/8" EUE 8 | | 558 | 572 | @ 4 BBL's |
| CASING | | | | | |
| ANNULUS | | | | | |
| OPEN HOLE | | | | | |

**MATERIALS AND CONCENTRATION**

| TIME A.M./P.M. | INJ. RATE | BBLS. PUMPED | PROP. PPG. | P |
|---|---|---|---|---|
| | | | | |

RECEIVED
JUL 09 1993
MO Oil & Gas Co

**TREATMENT FLUIDS**

| | BBLS | TYPE |
|---|---|---|
| FILL HOLE | 1 | gel water |
| BREAKDOWN | 3 | |
| PAD | 10 | |
| TREATING | 42 | |
| FLUSH | 4 | |
| OVERFLUSH | 10 | |
| TOTAL | 70 | |

**TREATMENT SUMMARY**

| PRESSURE - MIN. | MAX. | AVG. |
|---|---|---|
| 800 | 1200 | |
| INJ. RATE - TREAT | FLUSH | AVG. |
| 20 Bpm | | |
| HYDRAULIC HP USED | I.S.I.P. | FINAL |
| 1000 | | 200 |
| PERFORATIONS | | |
| 20 shots | ~~200~~ | 1600 Brk |

**EXPLANATION**

ARRIVE LOCATION _____ ROUND TRIP MILES

**FRACTURING - ACIDIZING**

1st 50 wells

| | | Office Use | |
|---|---|---|---|
| Pumping Charge INT | | | $ |
| Pumping Charge | @ | | $ 850 |
| 5 sks 12x30 Sand | @ | | 32.50 |
| 15 sks 10x20 Sand | @ | | 103.50 |
| x Sand | @ | | |
| Ton Mileage 120 | @ | | 60 |
| ~~Gals., Acid~~ | @ | | |
| ~~Chemicals~~ | @ | | |
| Had Their own Clay-stay | @ | | |
| | @ | | |
| | @ | | |
| | @ | | |
| | @ | | |
| ~~Potassium Chloride~~ | @ | | |
| 1 sk Rock Salt #50 | @ | | 6.00 |
| 1 sk Water Gel #50 | @ | | 125.00 |
| Transport Truck ( 3 Hrs.) | @ | | 162.00 |
| Vac Truck ( Hrs.) | @ | | |
| | | Tax | |
| | | Total | $ 1339.00 |

134159

A Finance Charge computed at 1¾% per month (annual percentage rate of 21%) will be added to balance over 30 days.

# Short Cuts

**TANK CAPACITY**

BBLS. (42 gal.) equals $D^2 x.14xh$

D equals diameter in feet.

h equals height in feet.

---

**BARRELS PER DAY**

Multiply gals. per minute x 34.2

---

HP equals BPH x PSI x .0004

BPH — barrels per hour

PSI — pounds square inch

---

**TO FIGURE PUMP DRIVES**

* D — Diameter of Pump Sheave
* d — Diameter of Engine Sheave

SPM — Strokes per Minute

RPM — Engine Speed

R — Gear Box Ratio

* C — Shaft Center Distance

D — RPMxd over SPMxR

d — SPMxRxD over RPM

SPM — RPMxD over RxD

R — RPMxd over SPMxD

BELT LENGTH — $2C + 1.57(D + d) + \frac{(D - d)^2}{4C}$

*Need these to figure belt length

TO FIGURE AMPS: $\frac{\text{WATTS}}{\text{VOLTS}} = \text{AMPS}$

746 WATTS equal 1 HP

typed

# Log Book

Well No. 27-W

Farm WALTON

(State) (County)

(Section) (Township) (Range)

For

(Well Owner)

S of 42 W
Mission

# TOWN OIL CO.

*Route 4*
*Paola, Kansas 66071*
*913-294-2125*

RECEIVED
JUL 09 1993
MO Oil & Gas Council

Walton Farm: _____ County

MO State; Well No. _____

Elevation _____

Commenced Spuding 10-9, 1992

Finished Drilling 10-13, 1992

Driller's Name _____

Driller's Name Haggard

Driller's Name _____

Tool Dresser's Name _____

Tool Dresser's Name Brant

Tool Dresser's Name _____

Contractor's Name _____

(Section) (Township) (Range)

Distance from _____ line, _____ ft.

Distance from _____ line, _____ ft.

5 5/8 Hole

## CASING AND TUBING RECORD

3 Sacks Cement

| | | | |
|---|---|---|---|
| 10" Set | | 10" Pulled | |
| 8" Set | | 8" Pulled | |
| 6¼" Set | 22'6 | 6¼" Pulled | |
| 4" Set | | 4" Pulled | |
| 2" Set | | 2" Pulled | |

## CASING AND TUBING MEASUREMENTS

| Feet | In. | Feet | In. | Feet | In. |
|---|---|---|---|---|---|
| 31 | 80 | 439 | 90 | | |
| 30 | 00 | 30 | 20 | | |
| 61 | 80 | 470 | 60 | | |
| 31 | 80 | 31 | 20 | | |
| 93 | 60 | 502 | 30 | | |
| 32 | 00 | 31 | 80 | | |
| 125 | 60 | 534 | 10 | | |
| 31 | 90 | 31 | 20 | | |
| 157 | 50 | 565 | 30 | | |
| 31 | 90 | 30 | 50 | | |
| 189 | 40 | 595 | 80 | | |
| 30 | 70 | 31 | 00 | | |
| 220 | 10 | | | | |
| 30 | 80 | 31 | 30 | | |
| 250 | 90 | | | | |
| 32 | 70 | | | | |
| 283 | 60 | | | | |
| 31 | 30 | | | | |
| 314 | 90 | | | | |
| 31 | 60 | | | | |
| 346 | 50 | | | | |
| 31 | 60 | | | | |
| 378 | 10 | | | | |
| 31 | 70 | | | | |
| 409 | 80 | | | | |
| 30 | 10 | | | | |

439.90



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| Thickness of Strata | Formation | Total Depth | Remarks |
|---|---|---|---|
| 0-4 | soil & clay | 4 | |
| 5 | LIME | 9 | |
| 34 | SHALE | 43 | |
| 10 | LIME | 53 | |
| 16 | SHALE | 69 | |
| 6 | Red Bed | 75 | |
| 5 | SHALE | 80 | |
| 6 | LIME | 86 | |
| 31 | SHALE | 117 | |
| 1 | LIME | 118 | |
| 12 | SHALE | 130 | |
| 2 | LIME | 132 | |
| 6 | SHALE | 138 | |
| 30 | LIME | 168 | Winterset |
| 7 | SHALE & SLATE | 175 | |
| 20 | LIME | 195 | Bethany Falls |
| 5 | Shale & SLATE | 200 | |
| 2 | LIME | 202 | KC - Sinclair |
| 3 | SHALE & SLATE | 205 | |
| 7 | LIME | 212 | Hertha |
| 3 | SHALE shells | 215 | |
| 4 | SAND | 219 | |
| 34 | SHALE | 253 | |
| 10 | SAND | 263 | |
| 46 | SHALE | 309 | |
| 14 | SAND | 323 | |





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323 240

| Thickness of Strata | Formation | Total Depth | Remarks |
|---|---|---|---|
| 22 | SHALE | 345 | |
| 10 | SAND | 355 | |
| 6 | SHALE | 361 | |
| 4 | SANDYSHALE | 365 | |
| 8 | SHALE | 373 | |
| 4 | SAND | 377 | |
| 18 | SHALE | 395 | |
| 5 | LIME | 400 | |
| 6 | SHALE | 406 | |
| 3 | LIME | 409 | |
| 8 | SHALE | 417 | |
| 10 | LIME | 427 | LT oil show |
| 4 | SAND | 431 | |
| 12 | SHALE | 443 | |
| 4 | LIME | 447 | |
| 4 | SAND | 451 | LT oil show |
| 2 | LIME | 453 | |
| 20 | SHALE | 473 | shells |
| 7 | SAND | 480 | gray: No show |
| 27 | SHALE | 507 | |
| 4 | SAND | 511 | gray No show |
| 10 | SAND | 521 | LT oil show |
| Bleeding v. good 30 | SAND | 551 | poor, good oil show |
| 2 | sandy lime | 553 | oil show |
| 5 | sand, shells | 558 | |
| 5 | SHALE | 563 | |





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| Thickness of Strata | Formation | Total Depth | Remarks (SOFT) |
|---|---|---|---|
| | | 563 | |
| 24 | SAND | 587 | Pool's V good oil show |
| 1 | LIME | 588 | |
| 22 | SAND | 610 | |
| | 610 T.D | | |
| 1 | JT 6 1/4 | 20'6 | |
| 3 | SACKS Cement | | |
| 1 | Pit | | |
| No cores | | | |
| 1 | 40 on 2 7/8 pipe | | |





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# MECHANICAL INTEGRITY TEST REPORT

Test Date: 8-5-08

Operator: Town Oil Company, Inc.
Contact Person: Lester Town
Address: 16205 West 287th St. Paola, Kansas 66071
Phone: 913-294-2125

Lease Walton Well # 27-W
County Cass Permit # 20553

TEST INFORMATION:

Type MIT: Pressure X Radioactive Tracer Survey___ Temperature Survey___

| | Run #1 | Run #2 | Run #3 |
|---|---|---|---|
| Start Time: | 2:50 pm | | |
| End Time: | 3:22 pm | | |
| Length of Test: (Start Time minus End Time) | 32 min | | |
| Initial Pressure (PSI): | 245 | | |
| Ending Pressure (PSI): | 225 | | |
| Pressure Change: (Initial Pressure minus Ending Pressure) | 20 8% drop | | |

Fluid used for test (water, nitrogen, CO2, ect.): Air

Comments about test:

The bottom of the tested zone is shut in with _____ at a depth of _____ft. In signing the form below, it is certified that the above indicated well was tested for mechanical integrity on the date shown at the top of this page.

Signed: Stacy P. Hawkinson — Operator Contact Person or Approved Agent

EOR — Title

DO NOT WRITE BELOW THIS LINE

Results were: Satisfactory X Not Satisfactory___
State Agent: Jeff Fagan Witnessed: Yes X No___
REMARKS:
Computer Update N FILE WITH PERMIT!

OGC Misc Form 1

# MECHANICAL INTEGRITY TEST REPORT

Test Date: 8-29-03 and 9-3-03

Operator: TOWN OIL COMPANY
Contact Person: Lester Town
Address: 16205 West 287th St. Paola, Ks. 66071
Phone: 913-294-2125

Lease WALTON Well # 27-W
County CASS Permit # 20553

TEST INFORMATION:

Type MIT: Pressure ✓ Radioactive Tracer Survey___ Temperature Survey___

| | Run #1 | Run #2 | Run #3 |
|---|---|---|---|
| Start Time: | 10:02 am | | |
| End Time: | 11:45 am | | |
| Length of Test: (Start Time minus End Time) | 1hr 43 min | | |
| Initial Pressure (PSI): | 100# | | |
| Ending Pressure (PSI): | 92# | | |
| Pressure Change: (Initial Pressure minus Ending Pressure) | -8# | | |

Fluid used for test (water, nitrogen, CO2, ect.): Air

Comments about test:
Perfs 558' Water Column 231' 99# calculated
Fluid depression test

The bottom of the tested zone is shut in with float Shoe and cement at a depth of 558' ft. In signing the form below, it is certified that the above indicated well was tested for mechanical integrity on the date shown at the top of this page.

Signed: Shirley P. Hamilton EOR
Operator Contact Person or Approved Agent Title

DO NOT WRITE BELOW THIS LINE

Results were: Satisfactory ✓ Not Satisfactory___
State Agent: ___ Witnessed: Yes ✓ No___
REMARKS: Witnessed by Ted Fritz EPA 9-3-03
Computer Update___ FILE WITH PERMIT!

OGC Misc Form 1

# MECHANICAL INTEGRITY TEST REPORT

Test Date: 8/19/98

Operator: TOWN OIL COMPANY
Contact Person: Lester Town
Address: 16205 West 287th St. Paola, Ks. 66071
Phone: 913-294-2125

Lease WALTON Well # 27-W
County CASS Permit # 20553

TEST INFORMATION:

Type MIT: Pressure ✓ Radioactive Tracer Survey___ Temperature Survey___

| | Run #1 | Run #2 | Run #3 |
|---|---|---|---|
| Start Time: | 12:40 pm | | |
| End Time: | 1:10 pm | | |
| Length of Test: (Start Time minus End Time) | 30 min | | |
| Initial Pressure (PSI): | 133# | | |
| Ending Pressure (PSI): | 120# | | |
| Pressure Change: (Initial Pressure minus Ending Pressure) | 13# | | |

Fluid used for test (water, nitrogen, CO2, ect.): air

Comments about test: 250' to water
per 558'
308' x .433 = 133#

The bottom of the tested zone is shut in with float shoe & cement at a depth of 558' ft. In signing the form below, it is certified that the above indicated well was tested for mechanical integrity on the date shown at the top of this page.

Signed: Sterling P. Hoemenke — Operator Contact Person or Approved Agent
EoR — Title

DO NOT WRITE BELOW THIS LINE

Results were: Satisfactory ✓ Not Satisfactory___
State Agent: Theodore R Hiff Witnessed: Yes ✓ No___
REMARKS:
Computer Update CK FILE WITH PERMIT!

OGC Misc Form 1

# MECHANICAL INTEGRITY TEST REPORT

Test Date: 10 Aug 1993

Operator: Town Oil Co.
Contact Person: Lester Town
Address: 16205 West 287th St. Paola, Kansas 66071
Phone: 913-294-2125

Lease WALTON Well # 27-W
County CASS Permit # 20553

TEST INFORMATION:

Type MIT: Pressure___ Radioactive Tracer Survey___ Temperature Survey___

| | Run #1 | Run #2 | Run #3 |
|---|---|---|---|
| Start Time: | 12:25 | | |
| End Time: | 13:00 | | |
| Length of Test: (Start Time minus End Time) | 35 min | | |
| Initial Pressure (PSI): | 80# | | |
| Ending Pressure (PSI): | 80# | | |
| Pressure Change: (Initial Pressure minus Ending Pressure) | | | |

Fluid used for test (water, nitrogen, CO2, ect.): Air

Comments about test: Perf 558 - 572 Fluid Depression Test
186' of fluid above Perfs x .43 = 80#

The bottom of the tested zone is shut in with Float Shoe & Cement at a depth of 558 ft. In signing the form below, it is certified that the above indicated well was tested for mechanical integrity on the date shown at the top of this page.

Signed: Sterling P. Hambuckle — Operator Contact Person or Approved Agent
E O R — Title

DO NOT WRITE BELOW THIS LINE

Results were: Satisfactory ✓ Not Satisfactory___
State Agent: E. Kirk Witnessed: Yes___ No ✓
REMARKS:
Computer Update 9/7/93 EK

FILE WITH PERMIT!

OCC Misc Form 1

CASING MECHANICAL INTEGRITY TEST

DOCKET # _____

Disposal [ ] Enhanced Recovery:

Repressuring [X]
Flood [X]
Tertiary [ ]

Date injection started _____
API #15 — — _____

_____ _____ _____, Sec 4, T 46 S, R 33 E/W

1860 Feet from ~~South~~ North Section Line
2685 Feet from ~~East~~ West Section Line

Lease WALTON Well # 27-W
County CASS CO. MO.

Operator: TOWN OIL
Name & Address Rt 4
PAOLA, KAN 66071

Operator License # _____
Contact Person Lester Town
Phone 913 294 2125

Max. Auth. Injection Press. _____ psi; Max. Inj. Rate _____ bbl/d;
If Dual Completion - Injection above production _____ Injection below production _____

| | Conductor | Surface | Production | Liner | Tubing |
|---|---|---|---|---|---|
| Size | | 6¾ | 2⅞ | | Size |
| Set at | | 20 | 588 | | Set at |
| Cement Top | | 0 | 0 | | Type |
| " Bottom | | 20 | 588 | | |

DV/Perf. _____ TD (and plug back) 588 ft. depth
Packer type _____ Size _____ Set at _____
Zone of injection 552 ft. to ft. 578 Perf. or open hole _____

Type Mit: Pressure [X] Radioactive Tracer Survey [ ] Temperature Survey [ ]

FIELD DATA

Time: Start 1:15 Min. 1:30 Min. _____ Min.

Pressures: 710# 710# _____ Set up 1 | System Pres. during test _____
_____ _____ _____ Set up 2 | Annular Pres. during test _____
_____ _____ _____ Set up 3 | Fluid loss during test _____ bbls.

Tested: Casing [X] or Casing - Tubing Annulus [ ]

The bottom of the tested zone is shut in with Float Shoe & Cement

Test Date 23 Oct 92 Using TOWN OIL _____ Company's Equipment

The operator hereby certifies that the zone between 0 feet and 588 feet

was the zone tested Sterling P. Homemble EOR
Signature Title

The results were Satisfactory + , Marginal _____, Not Satisfactory _____

State Agent _____ Title _____ Witness: Yes ____ No ____

REMARKS: _____

[ ] Orgin. Conservation Div.; [ ] KDHE/T; [ ] Dist. Office;

[ ] Computer Update

KCC Form U-7 6/84

MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM
# INJECTION WELL MONITORING REPORT

FORM 2400-9

TOTAL P.08

INSTRUCTIONS ▸ RECORD INJECTION RATE AND INJECTION PRESSURE AT LEAST MONTHLY WITH THE RESULTS SUBMITTED ANNUALLY.

| COUNTY | PERMIT NUMBER | OPERATOR | WELL NUMBER |
|---|---|---|---|
| Cass | 20553 | Town Oil Co. | Walton 27-W |

| MONTH | INJECTION RATE - bpd/gpm | INJECTION PRESSURE - psig | DATE MEASUREMENT TAKEN | REMARKS |
|---|---|---|---|---|
| (01) JAN. | 86 | 300 | 1-28-04 | |
| (02) FEB. | 86 | | 2-28-04 | |
| (03) MARCH | 86 | | 3-28-04 | |
| (04) APRIL | 86 | | 4-28-04 | |
| (05) MAY | 86 | | 5-28-04 | |
| (06) JUNE | 86 | | 6-28-04 | |
| (07) JULY | 86 | | 7-28-04 | |
| (08) AUG. | 86 | | 8-28-04 | |
| (09) SEPT. | 86 | | 9-28-04 | |
| (10) OCT. | 86 | | 10-28-04 | |
| (11) NOV. | 86 | | 11-28-04 | |
| (12) DEC. | 86 | | 12-28-04 | |

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

# INJECTION WELL MONITORING REPORT

FORM 2910-9

TOTAL P.03

INSTRUCTIONS › RECORD INJECTION RATE AND INJECTION PRESSURE AT LEAST MONTHLY WITH THE RESULTS SUBMITTED ANNUALLY.

| COUNTY | PERMIT NUMBER | OPERATOR | WELL NUMBER |
|---|---|---|---|
| Cass | 20553 | Town Oil Co. | Walton 27-W |

| MONTH | INJECTION RATE - bpd/gpm | INJECTION PRESSURE - psig | DATE MEASUREMENT TAKEN | REMARKS |
|---|---|---|---|---|
| (01) JAN. | 86 | 300 | 1-28-05 | |
| (02) FEB. | 86 | | 2-28-05 | |
| (03) MARCH | 86 | | 3-28-05 | |
| (04) APRIL | 86 | | 4-28-05 | |
| (05) MAY | 86 | | 5-28-05 | |
| (06) JUNE | 86 | | 6-28-05 | |
| (07) JULY | 86 | | 7-28-05 | |
| (08) AUG. | 86 | | 8-28-05 | |
| (09) SEPT. | 86 | | 9-28-05 | |
| (10) OCT. | 86 | | 10-28-05 | |
| (11) NOV. | 86 | | 11-28-05 | |
| (12) DEC. | 86 | | 12-28-05 | |

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GEOLOGICAL SURVEY PROGRAM
# INJECTION WELL MONITORING REPORT

FORM 2400-9

TOTAL P.02

| INSTRUCTIONS | RECORD INJECTION RATE AND INJECTION PRESSURE AT LEAST MONTHLY WITH THE RESULTS SUBMITTED ANNUALLY. |
|---|---|

| COUNTY | PERMIT NUMBER | OPERATOR | WELL NUMBER |
|---|---|---|---|
| Cass | 037 20553 | Town Oil Co. | Walton 27-W |

| MONTH | INJECTION RATE - bpd/gpm | INJECTION PRESSURE - psig | DATE MEASUREMENT TAKEN | REMARKS |
|---|---|---|---|---|
| (01) JAN. | 86 | 300 | 1-28-06 | |
| (02) FEB. | 86 | | 2-28-06 | |
| (03) MARCH | 86 | | 3-28-06 | |
| (04) APRIL | 86 | | 4-28-06 | |
| (05) MAY | 86 | | 5-28-06 | |
| (06) JUNE | 86 | | 6-28-06 | |
| (07) JULY | 86 | | 7-28-06 | |
| (08) AUG. | 86 | | 8-28-06 | |
| (09) SEPT. | 86 | | 9-28-06 | |
| (10) OCT. | 86 | | 10-28-06 | |
| (11) NOV. | 86 | | 11-28-06 | |
| (12) DEC. | 86 | | 12-28-06 | |

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GEOLOGICAL SURVEY PROGRAM
**INJECTION WELL MONITORING REPORT**

FORM 0030-12

TOTAL P.02

| INSTRUCTIONS ▸ | RECORD INJECTION RATE AND INJECTION PRESSURE AT LEAST MONTHLY WITH THE RESULTS SUBMITTED ANNUALLY. |
|---|---|

| COUNTY | PERMIT NUMBER | OPERATOR | WELL NUMBER |
|---|---|---|---|
| Cass | 20553 | Town Oil Co. | Walton 27-W |

| MONTH | INJECTION RATE - bpd/gpm | INJECTION PRESSURE - psig | DATE MEASUREMENT TAKEN | REMARKS |
|---|---|---|---|---|
| (01) JAN. | 86 | 300 | 1-28-07 | RECEIVED |
| (02) FEB. | 86 | 300 | 2-28-07 | FEB 29 2008 |
| (03) MARCH | 86 | 300 | 3-28-07 | Mo Oil & Gas Council |
| (04) APRIL | 86 | 300 | 4-28-07 | |
| (05) MAY | 86 | 300 | 5-28-07 | |
| (06) JUNE | 86 | 300 | 6-28-07 | |
| (07) JULY | 86 | 300 | 7-28-07 | |
| (08) AUG. | 86 | 300 | 8-28-07 | |
| (09) SEPT. | 86 | 300 | 9-28-07 | |
| (10) OCT. | 86 | 300 | 10-28-07 | |
| (11) NOV. | 86 | 300 | 11-28-07 | |
| (12) DEC. | 86 | 300 | 12-28-07 | |

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GEOLOGICAL SURVEY PROGRAM

# INJECTION WELL MONITORING REPORT

FORM OGC-12

**INSTRUCTIONS** ▸ RECORD INJECTION RATE AND INJECTION PRESSURE AT LEAST MONTHLY WITH THE RESULTS SUBMITTED ANNUALLY.

| COUNTY | PERMIT NUMBER | OPERATOR | WELL NUMBER |
|---|---|---|---|
| CASS | 20553 | TOWN OIL COMPANY | WALTON 27-W |

| MONTH | INJECTION RATE - bpd/gpm | INJECTION PRESSURE - psig | DATE MEASUREMENT TAKEN | REMARKS |
|---|---|---|---|---|
| (01) JAN. | 86 | 300 | 1-31-08 | |
| (02) FEB. | 86 | 300 | 2-28-08 | |
| (03) MARCH | 86 | 300 | 3-31-08 | |
| (04) APRIL | 86 | 300 | 4-30-08 | |
| (05) MAY | 86 | 300 | 5-31-08 | |
| (06) JUNE | 86 | 300 | 6-30-08 | |
| (07) JULY | 86 | 300 | 7-31-08 | |
| (08) AUG. | 86 | 300 | 8-31-08 | |
| (09) SEPT. | 86 | 300 | 9-30-08 | |
| (10) OCT. | 86 | 300 | 10-31-08 | |
| (11) NOV. | 86 | 300 | 11-30-08 | |
| (12) DEC. | 86 | 300 | 12-31-08 | |

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GEOLOGICAL SURVEY PROGRAM

FORM OGC-12

# INJECTION WELL MONITORING REPORT

**INSTRUCTIONS** ▸ RECORD INJECTION RATE AND INJECTION PRESSURE AT LEAST MONTHLY WITH THE RESULTS SUBMITTED ANNUALLY.

| COUNTY | PERMIT NUMBER | OPERATOR | WELL NUMBER |
|---|---|---|---|
| CASS | 20553 | TOWN OIL COMPANY | WALTON 27-W |

| MONTH | INJECTION RATE - bpd/gpm | INJECTION PRESSURE - psig | DATE MEASUREMENT TAKEN | REMARKS |
|---|---|---|---|---|
| (01) JAN. | 86 | 300 | 1-31-09 | RECEIVED |
| (02) FEB. | 86 | 300 | 2-28-09 | JAN 25 2010 |
| (03) MARCH | 86 | 300 | 3-31-09 | Mo Oil & Gas Council |
| (04) APRIL | 86 | 300 | 4-30-09 | |
| (05) MAY | 86 | 300 | 5-31-09 | |
| (06) JUNE | 86 | 300 | 6-30-09 | |
| (07) JULY | 86 | 300 | 7-31-09 | |
| (08) AUG. | 86 | 300 | 8-31-09 | |
| (09) SEPT. | 86 | 300 | 9-30-09 | |
| (10) OCT. | 86 | 300 | 10-31-09 | |
| (11) NOV. | 86 | 300 | 11-30-09 | |
| (12) DEC. | 86 | 300 | 12-31-09 | |

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

FORM OGC-12

# INJECTION WELL MONITORING REPORT

| INSTRUCTIONS ▸ | RECORD INJECTION RATE AND INJECTION PRESSURE AT LEAST MONTHLY WITH THE RESULTS SUBMITTED ANNUALLY. | | | |
|---|---|---|---|---|
| COUNTY | | PERMIT NUMBER | OPERATOR | WELL NUMBER |
| CASS | | 20553 | TOWN OIL COMPANY | WALTON 27-W |

| MONTH | INJECTION RATE - bpd/gpm | INJECTION PRESSURE - psig | DATE MEASUREMENT TAKEN | REMARKS |
|---|---|---|---|---|
| (01) JAN. | 86 | 300 | ~~12~~ 1-31-10 | RECEIVED |
| (02) FEB. | 86 | 300 | ~~12~~ 2-28-10 | JAN 20 2011 |
| (03) MARCH | 86 | 300 | ~~12~~ 3-31-10 | Mo Oil & Gas Council |
| (04) APRIL | 86 | 300 | ~~12~~ 4-30-10 | |
| (05) MAY | 86 | 300 | ~~12~~ 5-31-10 | |
| (06) JUNE | 86 | 300 | ~~12~~ 4-30-10 | |
| (07) JULY | 86 | 300 | ~~12~~ 7-31-10 | |
| (08) AUG. | 86 | 300 | ~~12~~ 8-31-10 | |
| (09) SEPT. | 86 | 300 | ~~12~~ 9-30-10 | |
| (10) OCT. | 86 | 300 | ~~12~~ 10-31-10 | |
| (11) NOV. | 86 | 300 | ~~12~~ 11-30-10 | |
| (12) DEC. | 86 | 300 | 12-31-10 | |

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JAN 30 2012

Mo Oil & Gas Council

FORM OGC-12

STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

# INJECTION WELL MONITORING REPORT

**INSTRUCTIONS** ▶ Record Injection Rate and Injection Pressure at least monthly with the results submitted annually.

| COUNTY | PERMIT NUMBER | OPERATOR | WELL NUMBER |
|---|---|---|---|
| Cass | 20553 | Altavista Energy, Inc. | Walton #27-W |

| MONTH | INJECTION RATE – bpd/gpm | INJECTION PRESSURE – psig | DATE MEASUREMENT TAKEN | REMARKS |
|---|---|---|---|---|
| (01) January | 0 | 0 | January 31, 2011 | |
| (02) February | 0 | 0 | February 28, 2011 | |
| (03) March | 0 | 0 | March 31, 2011 | |
| (04) April | 0 | 0 | April 30, 2011 | |
| (05) May | 0 | 0 | May 31, 2011 | |
| (06) June | 50.43 | 285 | June 30, 2011 | |
| (07) July | 54.58 | 300 | July 31, 2011 | |
| (08) August | 61.29 | 295 | August 31, 2011 | |
| (09) September | 72.17 | 290 | September 30, 2011 | |
| (10) October | 90.61 | 300 | October 31, 2011 | |
| (11) November | 93.67 | 295 | November 30, 2011 | |
| (12) December | 89.97 | 300 | December 31, 2011 | |

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Mo Oil & Gas Council

FORM OGC-7

STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

# PLUGGING RECORD

| OWNER'S NAME | ADDRESS | |
|---|---|---|
| Kansas Resource Exploration & Development, LLC | 9393 W 110th Street, Ste. 500 | |
| NAME OF LEASE | WELL NUMBER | PERMIT NUMBER (OGC-3 OR OGC-31 NUMBER |
| Walton | 27W | 037-20553 |

| LOCATION OF WELL SEC TWN RNG OR BLOCK AND SURVEY | LATITUDE | LONGITUDE | COUNTY |
|---|---|---|---|
| Sec. 4 Township 46 North Range 33 ☐ East ☑ West | N38 50.438 | W94 34.479 | Cass |

| APPLICATION TO DRILL THIS WELL WAS FILED IN NAME OF: | HAS THIS WELL EVER PRODUCED OIL OR GAS? | CHARACTER OF WELL AT COMPLETION (INITIAL PRODUCTION) OIL (BBLS/DAY) | GAS (MCF/DAY) | DRY? |
|---|---|---|---|---|
| Town Oil Company | ☑ Yes ☐ No | 2 | 0 | ☐ Yes ☑ No |

| DATE OF ABANDONMENT | TOTAL DEPTH | AMOUNT WELL PRODUCING PRIOR TO ABANDONMENT OIL (BBLS/DAY) | GAS (MCF/DAY) | WATER (BBLS/DAY) |
|---|---|---|---|---|
| 01/01/2013 | 610' | N/A | N/A | N/A |

| Name of each formation containing oil or gas. Indicate which formation open to well bore at time of abandonment | Fluid content of each formation | Depth interval of each formation | Size, kind, and depth of plugs used, giving amount of cement. |
|---|---|---|---|
| Squirrel Sandstone | Oil and Water | 558'-572' | Squeezed 89 sks of Portland from surface to 593', topped off the well with 5 additional sks of Portland, shut in with 2" valve |

| SIZE PIPE | PUT IN WELL (FT) | PULLED OUT (FT) | LEFT IN WELL (FT) | GIVE DEPTH AND METHOD OF PARTING CASING (SHOT, RIPPED, ETC.) | PACKERS AND SHOES |
|---|---|---|---|---|---|
| 2 7/8" | 593' | 0 | 593' | N/A | None |

| WAS WELL FILLED WITH MUD-LADEN FLUID? | INDICATE DEEPEST FORMATION CONTAINING FRESH WATER |
|---|---|
| ☐ Yes ☑ No | None |

## NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

| NAME | ADDRESS | DIRECTION FROM THIS WELL |
|---|---|---|
| Maclaughlin, J.R. and A | 1103 W47th, Apt B Kansas City, MO 64112 | West |
| Beary, Helen | 28 Briar Oaks Ln Reeds Springs, Mo 65737 | East |
| Michael Effertz Farms LLC | 16401 HOLMES RD, BELTON, MO 64012 | South |
| Colt Energy, Rhoden Lease | 4330 Shawnee Mssn Pky Fairway ks 66205 | North |

**METHOD OF DISPOSAL OF MUD PIT CONTENTS** There was no pit used in this process, cement was squeezed directly down the well

**NOTE** FILE THIS FORM IN DUPLICATE WITH: (USE REVERSE SIDE FOR ADDITIONAL DETAIL)

**CERTIFICATE** I, the undersigned, state that I am the Chief Operating Officer of the Kansas Resource Exploration and Development, LLC (Company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

| SIGNATURE | DATE |
|---|---|
| | 01/17/2013 |

MO 780-0217 (6-06) REMIT TWO (2) COPIES TO: GEOLOGICAL SURVEY PROGRAM, PO BOX 250, ROLLA, MO 65402 573/ 368-2143. ONE (1) COPY WILL BE RETURNED.