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JUL 26 1974
MO. OIL & GAS COUNCIL

MISSOURI OIL AND GAS COUNCIL

Form OGC-3

# APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL [x] DEEPEN [ ] PLUG BACK [ ]

NAME OF COMPANY OR OPERATOR TOWN OIL CO. DATE 7/20/74

RFD 4, Address — Paola, City — Kansas, State

## DESCRIPTION OF WELL AND LEASE

Name of lease: Walton
Well number: T-1
Elevation (ground):

Well location (give footage from section lines): 2480' from W. line; 900' from N. line
Section — township — range or block & survey: 4 46 33

County: Cass

Nearest distance from proposed location in property or lease line: 165' feet
Distance from proposed location to nearest drilling, completed or applied — for well on the same lease: 330' feet

Proposed depth: 550'
Rotary or Cable tools: Cable
Approx. date work will start: 7/22/74

Number of acres in lease: 85
Number of wells on lease, including this well, completed in or drilling to this reservoir: 18
Number of abandoned wells on lease: 3

If lease, purchased with one or more wells drilled, from whom purchased: Name Harry B. Knoche, Address 516 Markey Road, Belton, Mo. 64012
No. of Wells: abandoned 3; inactive all; producing .....

Status of Bond

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

Proposed casing setting depth:
Conductor: _____
Surface: _____
Other: _____

To be filled in by State Geologist
SAMPLES REQUIRED [ ]
SAMPLES NOT REQUIRED [ ]

CERTIFICATE: I, the undersigned, state that I am a 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.

OCT 21 1974
MO. OIL & GAS COUNCIL

Lester M. Town
Signature

Permit Number: 20024 - used only as injection well
Approval Date: March 1976
Approved By: Jack Wells KEH

Note: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

Remit two copies; one will be returned.

**Note:** Permit approval for drilling only, not injection. Approval or denial for injection determined after Mechanical Integrity Test results reviewed and official notification given.

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 6-15-87

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

## DESCRIPTION OF WELL AND LEASE

| Name of lease | Well number | Elevation (ground) |
|---|---|---|
| Walton | T-1 (I-W) | |

WELL LOCATION (give footage from section lines): 7122 ft. from (N) (S) sec line; 4115 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 _____ feet

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

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

Number of acres in lease: approx 85

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

Number of abandoned wells on lease: _____

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

Name Harry Knocke

Address Dalton, Mo

No of Wells: producing _____ injection _____ inactive _____ abandoned _____

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

Outline Proposed Stimulation Program

water injection & secondary recovery

| Proposed casing program amt. | size | wt/ft | cem. | Approved casing amt. | size | wt/ft | cem. |
|---|---|---|---|---|---|---|---|
| 600 | 4" | | To surface | | | | |
| | | | | | | | |
| | | | | | | | |

To be filled in by State Geologist

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MO Oil & Gas Council
Economic Geology

I, the undersigned, state that I am the Partner of the _____ (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 Luther Town

Permit Number 20024

Approved Date 7/20/87

Approved by Tom Rose/Dennis Williams KI

☐ 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.*

8/1/84

I Bartner of the Tawa Oil

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 _____

Date _____

**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 400 psig, rate 25 bpd/gpm, volume 300 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 400 psig, rate 5 bpd/gpm, volume 1000 bbl/gal

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

Describe the source of the injection fluid produced + fresh water

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

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

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

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

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

MISSOURI OIL AND GAS COUNCIL

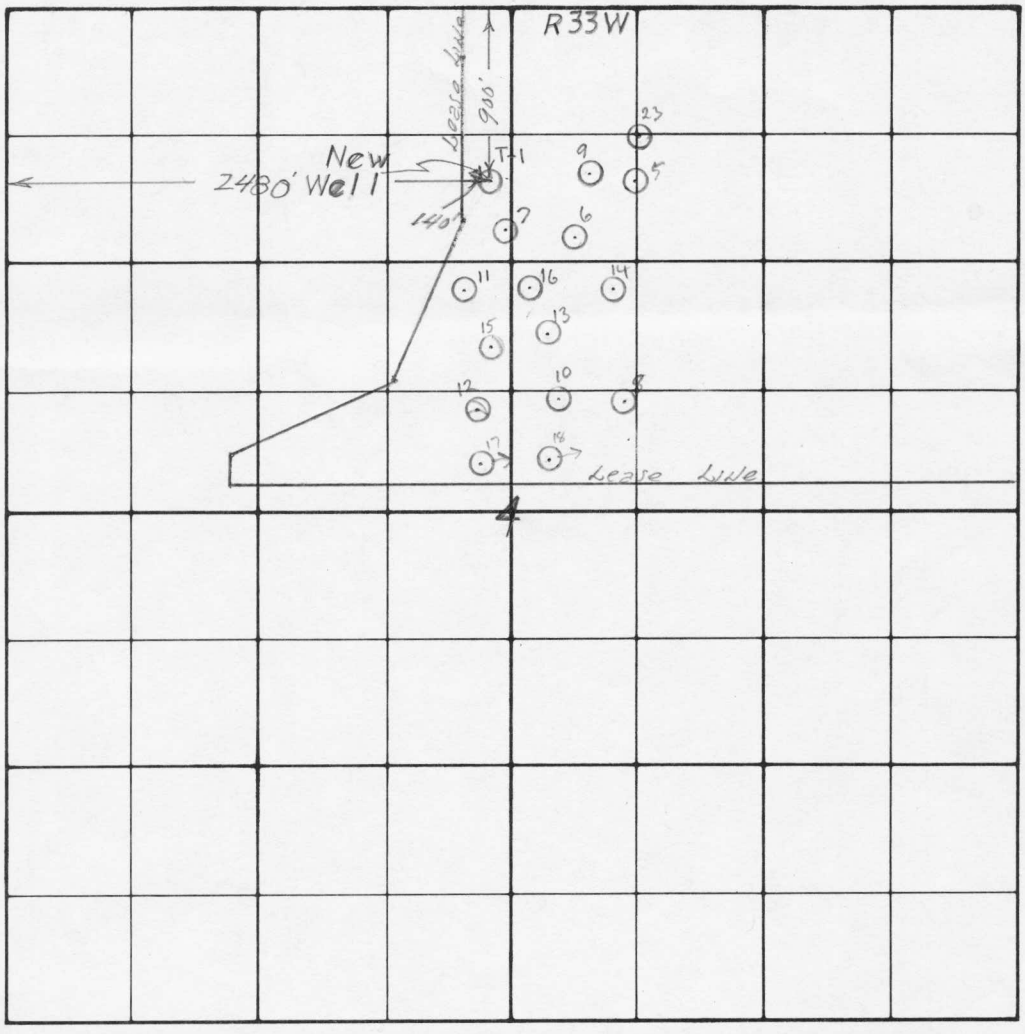
Form OGC - 4

WELL LOCATION PLAT

Owner: TOWN OIL COMPANY

Lease Name: Walton County, Cass

900 feet from (N) · (X) line and 2480 feet from (X) (W) line of Sec. 4 Twp. 46 Range 33




SCALE
1" = 1000'

REMARKS:

OCT 21 1974

MO. OIL & GAS COUNCIL

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest lease and section lines, and from the nearest well on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well. Do not confuse survey lines with lease lines. See rule 7 - 3 (b) for survey requirements.

Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250 Rolla, Mo. 65401
One will be returned.

WILLIAM M. ERICKSON
REGISTERED
(SEAL)
331
KANSAS
LAND SURVEYOR

Registered Land Surveyor

(701-073)

MISSOURI OIL AND GAS COUNCIL

Form OGC-5

# WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

New Well XXX | Work-Over ☐ | Deepen ☐ | Plug Back ☐ | Same Reservoir ☐ | Different Reservoir ☐ | Oil ☐ | Gas ☐ | Dry ☐

| | |
|---|---|
| Owner: Town Oil Co. | Address: R.R. #4, Paola, Ks. 66071 |
| Lease Name: F. M. Walton | Well Number: T-1 (1-W) |

Location: 7122.21 & 4115.19 as shown on map heretofore filed — Sec. — TWP-Range or Block & Survey: 4 46 33

| | | | | |
|---|---|---|---|---|
| County: Cass | Permit number (OGC3 number): 20024 | | | |
| Date spudded: Unknown | Date total depth reached: 600 | Date completed, ready to produce | Elevation (DF, RKB, RT or Gr.) feet | Elevation of casing hd. flange feet |
| Total depth: 600 | P. B. T. D | | | |

| | | | |
|---|---|---|---|
| Producing interval (s) for this completion | | Rotary tools used (interval) From ..... to ..... Drilling Fluid used ..... | Cable tools used (interval) From 0 to 600 |
| 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 hereto. | | | 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 | Amt. pulled |
|---|---|---|---|---|---|---|
| Surface | 8" | 6 1/4 | | 500 | Water string retrived | |
| Producing | 6 1/4 | 4 | | 600 | 20 sacks cement | |
| | | | | | | |

## TUBING RECORD

| Size in. | Depth set ft. | Packer set at ft. |
|---|---|---|
| | | |

## LINER RECORD

| Size in. | Top ft. | Bottom ft. | Sacks cement | Screen (ft.) |
|---|---|---|---|---|
| | | | | |

## PERFORATION RECORD

| Number per ft. | Size & type | Depth Interval |
|---|---|---|
| | | |
| | | |

## ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

| Am't. & kind of material used | Depth Interval |
|---|---|
| | |
| | |

## INITIAL PRODUCTION

Date of first production: Water injection

Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)

| Date of test | Hrs. tested | Choke size | Oil prod. during test bbls. | Gas prod. during test MCF | Water prod. during test bbls. | Oil gravity API (Corr.) |
|---|---|---|---|---|---|---|
| | | | | | | |

| Tubing pressure | Casing pressure | Cal'ted rate of Production per 24 hrs. | Oil bbls. | Gas MCF | Water bbls. | Gas—oil ratio |
|---|---|---|---|---|---|---|
| | | | | | | |

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.

Town Oil Co.

Michael Town

Signature Michael Town

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL

# PLUGGING RECORD

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FORM OGC-7

| OWNER | ADDRESS |
|---|---|
| Town Oil Co. | 16205 W. 287 St., Paola, Kansas 66071 |

| NAME OF LEASE | WELL NUMBER | PERMIT NUMBER (OGC-3 OR OGC-3I NUMBER) |
|---|---|---|
| Walton | T-1 | ~~Unknown~~ 20024 |

| LOCATION OF WELL | SEC-TWP-RNG OR BLOCK & SURVEY | COUNTY |
|---|---|---|
| 875' FNL 2506' FWL | 4-46-33 | 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 Co. | ☐ YES ☐ NO | | | |

| DATE ABANDONED | TOTAL DEPTH | AMOUNT WELL PRODUCING PRIOR TO ABANDONMENT OIL (BBLS/DAY) | GAS (MCF/DAY) | WATER (BBLS/DAY) |
|---|---|---|---|---|
| 4-8-98 | 600 | | | |

| 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, & depth of plugs used, giving amount cement. |
|---|---|---|---|
| Pumped 10 sacks at 4 1/2. Pumped 350' | 575' in 4 1/2 through 1" tremie pipe. Removed to surface through 1" tremie pipe - 105 sacks | | 330' of cement |

| 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 |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| WAS WELL FILLED WITH MUD-LADEN FLUID? | INDICATE DEEPEST FORMATION CONTAINING FRESH WATER |
|---|---|
| | |

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

| NAME | ADDRESS | DIRECTION FROM THIS WELL |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

| METHOD OF DISPOSAL OF MUD PIT CONTENTS ▶ | Covered with dirt |
|---|---|

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

**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.

| SIGNATURE | DATE |
|---|---|
| Luther Town | 10-3-98 |

MO 780-0217 (10-87)

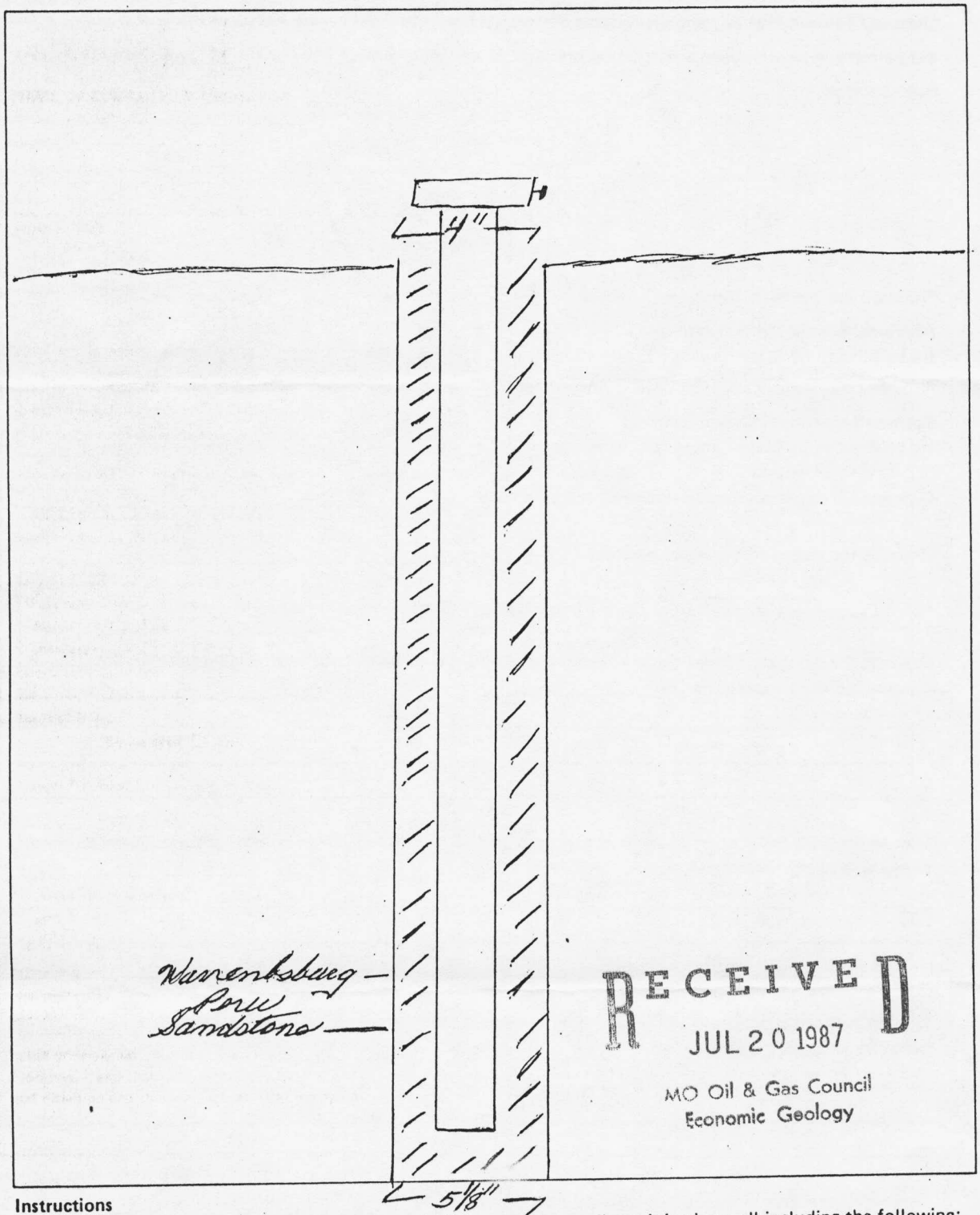
REMIT TWO COPIES TO: MISSOURI OIL AND GAS COUNCIL, P.O. BOX 250, ROLLA, MO 65401

County Cass Permit # _____ Operator Town Oil Well # T-1 (I-W)

Missouri Oil and Gas Council

Form OGC-11

INJECTION WELL SCHEMATIC

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Economic Geology

**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.

Walton Farm; Cass County

MO. State; Well No. #1

Elevation _____

Commenced Spuding _____, 19__

Finished Drilling _____, 19__

Driller's Name Winton Town

Driller's Name _____

Driller's Name _____

Tool Dresser's Name _____

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name _____

_____ _____ _____

(Section) (Township) (Range)

Distance from _____ line, _____ ft.

Distance from _____ line, _____ ft.

8-18-98
Pumped 10 sacks @ 595 in 4½ through 1" tremie pipe. Removed 330' of 4½. Pumped 350' to surface through 1" tremie pipe - 105 sx.

## CASTING AND TUBING RECORD

| | | | |
|---|---|---|---|
| 10" Set | _____ | 10" Pulled | _____ |
| 8" Set | _____ | 8" Pulled | _____ |
| 6¼" Set | _____ | 6¼" Pulled | _____ |
| 4" Set | 600 ft. 20 Sacks Cement | 4" Pulled | _____ |
| 2" Set | _____ | 2" Pulled | _____ |

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# Rules of Thumb

## CEMENTING ANNULUS

| | |
|---|---|
| 2" ID — 6¼" — 1 Sack | 5.8' |
| 2" ID — 8" — 1 Sack | 3.1' |
| 3" ID — 8" — 1 Sack | 3.5' |
| 4" ID — 8" — 1 Sack | 4.0' |

## CAPACITY

| | |
|---|---|
| 2" — 1 BBL. equals | 256' |
| 2½" — 1 BBL. equals | 164' |
| 3" — 1 BBL. equals | 115' |
| 4" — 1 BBL. equals | 64' |
| 4⅞" — 1 BBL. equals | 43' |
| 6¼" — 1 BBL. equals | 26' |
| 8" — 1 BBL. equals | 16' |

## WATER - CEMENT RATIO

5.5 gals. to 1 sack — 2½ hrs. to thicken slurry

7.7 gals. to 1 sack — 2 hrs. to thicken slurry

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| Thickness of Starts | Formation | Total Depth | Remarks |
|---|---|---|---|
| 14 | Soil | 14 | |
| 24 | Lime | 38 | Water 1gal. min |
| 28 | Shale | 65 | |
| 8 | Lime | 73 | |
| 10 | Shale | 83 | |
| 5 | Red Bed | 88 | |
| 13 | Shale | 101 | |
| 10 | Lime | 111 | Drum |
| 26 | Shale | 137 | |
| 1 | Lime | 138 | |
| 25 | Shale | 163 | |
| 23 | Lime | 186 | Winter set |
| 8 | Shale & Slate | 194 | |
| 18 | Lime | 212 | Bethings Falls |
| 4 | Shale & Slate | 216 | |
| 2 | Lime | 218 | Kansas City |
| 3 | Shale & Slate | 221 | |
| 6 | Lime | 227 | Hertha S.L.M. 228½ |
| 41 | Shale | 268 | |
| 4 | Sand | 272 | |
| 56 | Shale | 328 | |
| 3 | Sandy Lime | 331 | |
| 6 | Sand | 337 | Little Gas |
| 71 | Shale | 408 | |
| 6 | Lime | 414 | Brown |

| Thickness of Starts | Formation | Total Depth | Remarks |
|---|---|---|---|
| 2 | Shale | 416 | |
| 2 | Lime | 418 | |
| 9 | Shale | 427 | |
| 6 | Lime | 433 | |
| 8 | Shale | 441 | |
| 3 | Sand | 444 | Little Gas |
| 9 | Shale | 453 | |
| 5 | Lime | 458 | |
| 5 | Slate | 463 | water |
| 5 | Sand | 468 | Gas set 7" 467 |
| 8 | Sandy Lime | 476 | |
| 37 | Shale | 513 | |
| | Sandy lime | 516 | |
| 1 | Shale | 522 | |
| 3 | Sand | 525 | oil showing |
| 50 | Sand & shale | 575 | Good oil showing broken |
| 10 | Sand Soft | 585 | oil Good |
| 5 | Shale | 590 | |
| 10 | Sand Water D. Cattleman | 600 | |

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Permit #: 20024 Date Issued: March 76

County: Cass Date Cancelled:

CONFIDENTIAL UNTIL: Date Plugged:

| OGC FORMS | Date Received |
|---|---|
| 1 | |
| 2 | |
| 3 | 10-21-74 |
| 3i | 7-20-87 |
| 4 | 10-21-74 |
| 4i | |
| 5 | 12-18-78 |
| 6 | |
| 7 | |
| 8 | |
| 11 | 7-20-87 |
| 12 | |
| Misc. Form 2 | |

| | TYPE | ID # | Date Received |
|---|---|---|---|
| Logs | | | |
| | | | |
| | | | |
| | | | |
| Samples | chip | | |
| | core | | |
| Analyses | water | | |
| | core | | |

Additional Submitted Data:

COMMENTS:

injection well 8-11-87