

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 3-2-84

Rt. 4 Address Paola City KS State

DESCRIPTION OF WELL AND LEASE			
Name of lease <u>Walton</u>	Well number <u>23-W</u>	Elevation (ground) <u>1090' TM</u>	
WELL LOCATION (give footage from section lines) <u>648</u> ft. from (N) <del>25</del> sec line <u>2679</u> ft. from (E) <del>20</del> sec line			
WELL LOCATION Section <u>4</u> Township <u>46</u> Range <u>33</u>			COUNTY <u>Cass</u>
Nearest distance from proposed location to property or lease line <u>160</u> feet Distance from proposed location to nearest drilling, completed or applied - for well on the same lease <u>210</u> feet			
Proposed depth <u>600'</u>	Rotary or Cable tools <u>Rotary</u>	Drilling Contractor, name and address <u>Company Tools</u>	Approx. date work will start <u>When approved</u>
Number of acres in lease <u>Approx 85</u>	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 <u>Harry Knoche</u> Address <u>Belton, MO</u>		No of Wells: producing _____ injection _____ inactive _____ abandoned _____	
Status of Bond Single Well <input type="checkbox"/> Amt. _____ Blanket Bond <input checked="" type="checkbox"/> Amt. <u>20,000</u>			<input checked="" type="checkbox"/> ON FILE <input type="checkbox"/> ATTACHED
Outline Proposed Stimulation Program <u>Water injection and secondary recovery</u>			
Proposed casing program amt. <u>600'</u> size <u>2"</u> wt/ft <u>3.75</u> cem. <u>to surface</u>		Approved casing - To be filled in by State Geologist amt. <u>600</u> size <u>2</u> wt/ft _____ cem. _____ <u>MO Oil &amp; Gas Council</u> <u>Economic Geology</u>	
I, the undersigned, state that I am the <u>Partner</u> of the <u>Town Oil Co.</u> (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 <u>Michael J. [unclear]</u>			

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Permit Number 20433  
Approved Date 4/24/84  
Approved by Wallace B. [unclear]

SAMPLES REQUIRED  SAMPLES NOT REQUIRED  
WATER SAMPLES REQUIRED @ APR 09 1984  
MO. OIL & GAS COUNCIL

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.

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 3-2-84

**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 700 psig, rate 50 bpd/~~gpm~~ volume 1000 bbl/~~gal~~  
 Approved maximum daily injection, (to be filled in by State Geologist). pressure 600 psig, rate 50 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 and fresh water

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

See the enclosed driller's log, gamma ray and core analysis

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

See the enclosed driller's log, gamma ray and core analysis

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Submit all available logging and testing data on the well.

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Economic Geology

Give a detailed description of any well needing corrective action which penetrates the injection zone in the area of review (1/2 mile radius around well). Include the reason for and proposed corrective action:

None

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#20433

MISSOURI OIL AND GAS COUNCIL

Form OGC-5

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

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

Owner Town Oil Co.		Address Rt. 4 Paola, KS. 66071			
Lease Name Walton		Well Number 23-W			
Location 648' FNL 2679' FEL		Sec. -- TWP-Range or Block & Survey 4-46--33			
County Cass	Permit number (OGC3 number) 20433				
Date spudded 9-6-88	Date total depth reached 9-9-88	Date completed, ready to produce	Elevation (DF, RKB, RT or Gr.) feet	Elevation of casing hd. flange feet	
Total depth 620	P. B. T. D				
Producing interval (s) for this completion			Rotary tools used (interval) From 0 to 620 Drilling Fluid used water	Cable tools used (interval) From to	
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)				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	9"	6 1/4"		21	3	0
Completion	5 1/8"	2 1/2"		607.10	68	0

TUBING RECORD

LINER RECORD

Size in.	Depth set ft.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)
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PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
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INITIAL PRODUCTION

Date of first production N/a		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'ed 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):

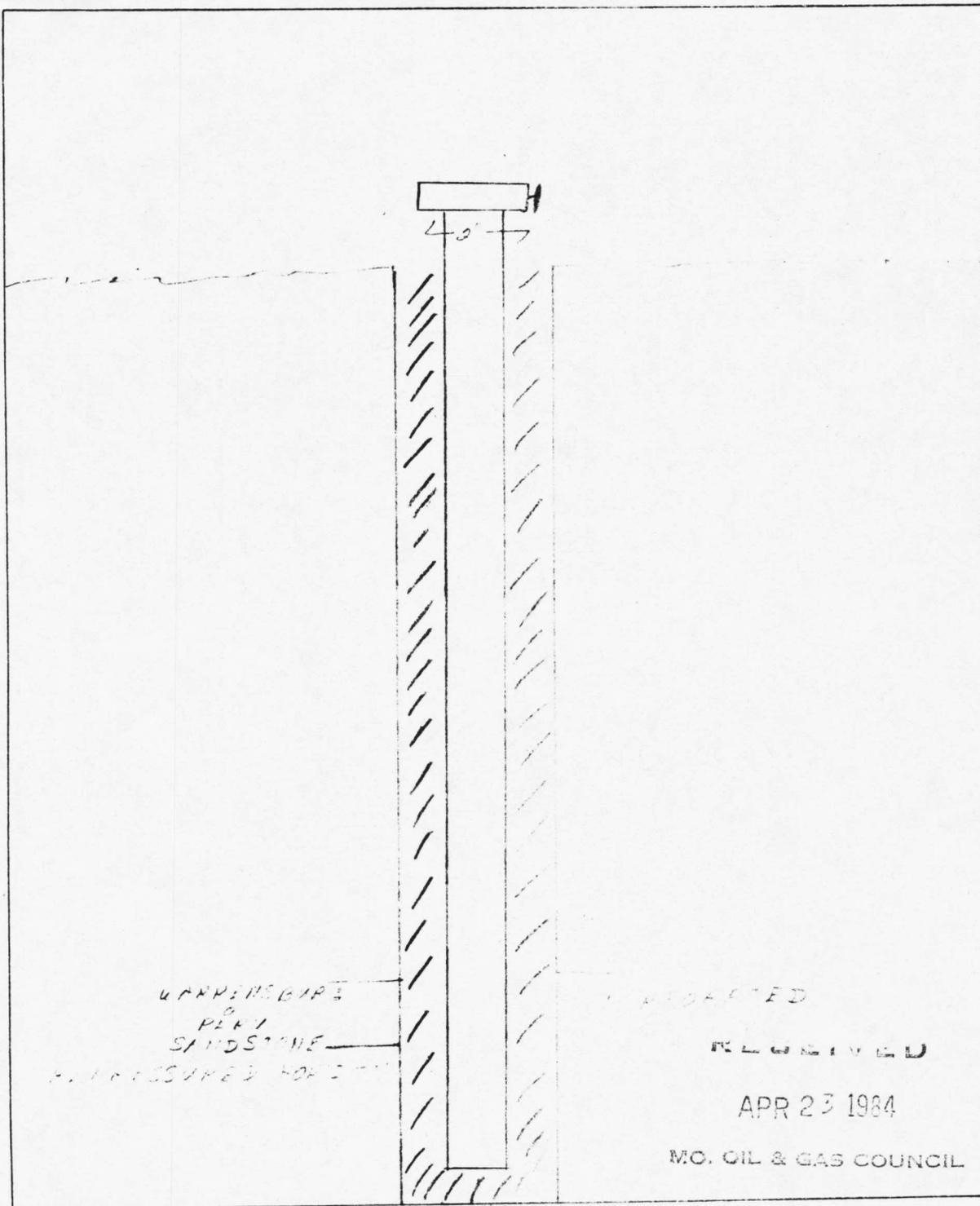
Method of disposal of mud pit contents:  
Covered with dirt

CERTIFICATE: I, the undersigned, state that I am the Partner of the Town Oil (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 *John Town* RECEIVED  
AUG 16 1993

Missouri Oil and Gas Council  
INJECTION WELL SCHEMATIC

Form OGC-11



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**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.

42 0433

Area of Review Wells (1/2 mile radius around well) that Penetrate the Injection Interval

Construction

Lease	Well #	Location	Owner	Depth	Type	Reporting	Depth	Construction
Beary	54A	165' from (N)(S) sec. line 1652.25' from (E)(W) sec. line Sec. 4 T. 46 N. R. 33W	Emery Energy	640	0	1/81	1/81	Surface 9" hole 7" casing 20.583' Production 6 1/4" hole 4" casing 629.80'
Beary	54C	546.6' from (N)(S) sec. line 1652.2' from (E)(W) sec. line Sec. 4 T. 46 N. R. 33W	Emery Energy	640	0	12/80	12/80	Surface 9" hole 7" casing 21.583' Production 6 1/4" hole 4" casing 630.6'
Beary	54C1	546.6' from (N)(S) sec. line 1652.2' from (E)(W) sec. line Sec. 4 T. 46 N. R. 33W	Emery Energy	520	0	1/81	1/81	Surface: 9" hole 7" casing 21.67' Production 6 1/4" hole 4" casing 462.50'
Beary	54E	930.2' from (N)(S) sec. line 1652.2' from (E)(W) sec. line Sec. 4 T. 46 N. R. 33W	Emery Energy	640	0	1/81	1/81	Surface 9" hole 7" casing 20.75' Production: 6 1/4" hole 4" casing 628.35'
Beary	B-55	355' from (N)(S) sec. line 1542' from (E)(W) sec. line Sec. 4 T. 46 N. R. 33W	Emery Energy	640	0	1/81	1/81	Surface 9" hole 7" casing 21.42' Production 6 1/4" hole 4" casing 628.70'
		_____ from (N)(S) sec. line _____ from (E)(W) sec. line Sec. _____ T. _____ N. R. _____						
		_____ from (N)(S) sec. line _____ from (E)(W) sec. line Sec. _____ T. _____ N. R. _____						
		_____ from (N)(S) sec. line _____ from (E)(W) sec. line Sec. _____ T. _____ N. R. _____						

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Attach additional sheets if necessary

Instructions

In the above grid place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion information, detailing the cement, casing, and subsurface casing information.

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Area of Review (around well) that Penetrate the Injection Interval

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Construction

Depth

Type

Owner

Location

Well #

Lease

Lease	Well #	Location	Owner	Depth	Type	Construction
Walton	5W	1201' from (N) <del>(S)</del> sec. line 2200' from (E) <del>(W)</del> sec. line Sec. 4 T. 46 N. R. 33W	Town Oil	600	0	Surface: 9" hole 6 1/4" casing 20.9' Production: 5 1/8" hole 2" casing 592'
Walton	6W	1555' from (N) <del>(S)</del> sec. line 2330' from (E) <del>(W)</del> sec. line Sec. 4 T. 46 N. R. 33W	Town Oil	593	0	Surface: 6 1/4" casing 20' Production: 2" casing 573'
Walton	8W	1580' from (N) <del>(S)</del> sec. line 1595' from (E) <del>(W)</del> sec. line Sec. 4 T. 46 N. R. 33W	Town Oil	614	0	Surface: 6 1/4" casing 18' Production: 2" casing 612'
Walton	20	2229' from (N) <del>(S)</del> sec. line 2383' from (E) <del>(W)</del> sec. line Sec. 4 T. 46 N. R. 33W	Town Oil	550	0	Surface: 8" hole 8" casing 20' Intermediate 8" hole 6 1/4" casing 456' Producing: 6 1/4" hole 4 1/2" casing 535'
Walton	22	1413' from (N) <del>(S)</del> sec. line 1775' from (E) <del>(W)</del> sec. line Sec. 4 T. 46 N. R. 33W	Town Oil	594	0	Surface 8" hole 8" casing 23' Production: 6 1/2" hole 4 1/4" casing 570'
Walton	24	164' from (N) <del>(S)</del> sec. line 2505' from (E) <del>(W)</del> sec. line Sec. 4 T. 46 N. R. 33W	Town Oil	620	0	Surface: 8 5/8" hole 6 1/4" casing 21' Production: 5 1/4" hole 2" casing 620'
Walton	25	165' from (N) <del>(S)</del> sec. line 2835' from (E) <del>(W)</del> sec. line Sec. 4 T. 46 N. R. 33W	Town Oil	620	0	Surface 8 5/8" hole 6 1/4" casing 21' Production: 5 1/4" 2" casing 610'
Walton	26	165' from (N) <del>(S)</del> sec. line 2140' from (E) <del>(W)</del> sec. line Sec. 4 T. 46 N. R. 33W	Town Oil	620	0	Surface: 8 5/8" hole 6 1/4" casing 22' Production: 5 1/4" hole 2" casing 600'

Attach additional sheets if necessary

**Instructions**

In the above grid place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil - O, Gas - G, Water - W, Injection - I, Strat Test - S, Unknown - U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion information, detailing the cement, casing, and subsurface casing information.

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Area of Review Wells (1/2 mile radius around well) that Penetrate the Injection Interval

Completed  
10/77

Construction

Well #	Location	Owner	Depth	Type	Completed	Construction
Walton	495' from (N1)S0 sec. line 2140' from (E1)W1 sec. line Sec. 4 T. 46 N. R. 33W	Town 011	608	0	9/77	Surface: 7" casing 74' Production: 4" casing 596'
Walton	1261' from (N1)S0 sec. line 1517' from (E1)W1 sec. line Sec. 4 T. 46 N. R. 33W	Town 011	590	0	1/81	Surface: 8 5/8" hole 6 1/4" casing 21' Production: 5 1/4" hole 2" casing 502'
Walton	1258' from (N1)S0 sec. line 1847' from (E1)W1 sec. line Sec. 4 T. 46 N. R. 33W	Town 011	600	0	2/82	Surface: 9" hole 6 1/4" casing 20' Production: 5 1/8" hole 2" casing 588.05'
Walton	2221' from (N1)S0 sec. line 1518' from (E1)W1 sec. line Sec. 4 T. 46 N. R. 33W	Town 011	595	0	3/82	Surface: 9" hole 6 1/4" casing 20.5' Production: 5 1/8" hole 6 1/4" casing 595.20'
Asjes	547' from (N1)S0 sec. line 882' from (E1)W1 sec. line Sec. 4 T. 46 N. R. 33W	Emery Energy	639	0	11/81	Surface: 9" hole 6 1/4" casing 20' Production: 5 1/4" hole 2" casing 640'
Asjes	547' from (N1)S0 sec. line 559' from (E1)W1 sec. line Sec. 4 T. 46 N. R. 33W	Emery Energy	634	0	7/81	Surface: 9" hole 6 1/4" casing 20' Production: 5 1/4" hole 2" casing 636.5'
Asjes	547' from (N1)S0 sec. line 18' from (E1)W1 sec. line Sec. 4 T. 46 N. R. 33W	Emery Energy	670	0	7/81	Surface: 9" hole 6 1/4" casing 22' Production: 5 1/4" hole 2" casing 660'
Asjes	54' from (N1)S0 sec. line 159' from (E1)W1 sec. line Sec. 4 T. 46 N. R. 33W	Emery Energy	636	0	9/81	Surface: 9" hole 6 1/4" casing 20' Production: 5 1/4" hole 2" casing 636.5'

Attach additional sheets if necessary

Instructions

In the above grid place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other = specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion information, detailing the cement casing, and subsurface casing information.

#20433

#20433

Area of Review Wells (1/2 mile radius around well) that Penetrate the Injection Interval

Lease	Well #	Location	Owner	Depth	Type	Date Spudded	Date Completed	Construction
Asjes	E-4	812' from (N) (S) sec. line 882' from (E) (W) sec. line Sec 4 T 46 N. R. 33N	Emery Energy	629	0	11/81	11/81	Surface: 9" hole 6 1/4" casing 20' Production: 5 1/4" hole 2" casing 640'
Asjes	G-2	1306.5' from (N) (S) sec. line 1187.5' from (E) (W) sec. line Sec 4 T 46 N. R. 33W	Emery Energy	669.4	0	11/81	11/81	Surface: 9" hole 6 1/4" casing 20' Production: 5 1/4" hole 2" casing 670'
Asjes	G-4	1303' from (N) (S) sec. line 972' from (E) (W) sec. line Sec 4 T 46 N. R. 33W	Emery Energy	666.0	0	11/81	11/81	Surface: 9" hole 6 1/4" casing 17.6' Production: 5 1/4" hole 2" casing 670'
Beary	A-52	165' from (N) (S) sec. line 1872' from (E) (W) sec. line Sec 4 T 46 N. R. 33W	Emery Energy	642	0	1/81	1/81	Surface: 9" hole 7" casing 21' Production 6 1/4" hole 4" casing 628.4'
Beary	52C	546.46' from (N) (S) sec. line 1872.25' from (E) (W) sec. line Sec 4 T 46 N. R. 33W	Emery Energy	640	0	1/81	1/81	Surface: 9" hole 7" casing 35' Production: 6 1/4" hole 4" casing 627.80'
Beary	E-52	927.92' from (N) (S) sec. line 1872.25' from (E) (W) sec. line Sec 4 T 46 N. R. 33W	Emery Energy	641	0	1/81	1/81	Surface: 9" hole 7" casing 21.853' Production: 6 1/4" hole 4" casing 628.35'
Beary	53B	355.70' from (N) (S) sec. line 1762.25' from (E) (W) sec. line Sec 4 T 46 N. R. 33W	Emery Energy	640	0	1/81	1/81	Surface: 9" hole 7" casing 21.583' Production: 6 1/4" hole 4" casing 630.85'
Beary		738.19' from (N) (S) sec. line 1762.25' from (E) (W) sec. line Sec 4 T 46 N. R. 33W	Emery Energy	640	0	1/81	1/81	Surface: 9" hole 7" casing 20.9' Production: 6 1/4" hole 4" casing 627.5'

Attach additional sheets if necessary

Instructions

In the above grid place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil - O, Gas - G, Water - W, Injection - I, Strat. Test - S, Unk - ), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion information, detailing the cement, casing, and subsurface casing information.

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Economic Geology

TOWN OIL CO.

"Purchaser of Crude Oil"

Route 4  
Paola, Kansas 66071

913-294-2854

913-294-4232

Farm: Walton  
Cass County, Missouri  
Lease Owner: Town Oil Co.

Walton --

Thickness of Strata	Formation	Total Depth
8	Soil & clay	8
28	Broken lime	36
28	Shale	64
9	Lime	73
14	Shale	87
2	Red bed	89
5	Shale	94
2	Red bed	96
7	Shale	103
6	Lime	109
27	Shale	136
4	Lime	140
17	Shale	157
2	Lime	159
3	Shale	162
23	Lime	185
6	Shale	191
20	Lime	211
4	Shale & slate	215
2	Lime	217
2	Shale & slate	219
7	Lime	226
5	Shale	231
3	Sandy lime	234
34	Shale	268
5	Sand	273
62	Shale	335
8	Sand	343
18	Shale	361
5	Lime shells	366
36	Shale	403
6	Sand	408
2	Shale	410
3	Lime	413
3	Shale	416
4	Broken lime	420
8	Shale & slate	428
8	Lime	436
4	Shale	440

Hertha

Farm: Walton  
Cass County, Missouri  
Lease Owner: Town Oil Co.'

Thickness of Strata	Formation	Total Depth
6	Sand	446
11	Shale	457
4	Lime	461
4	Slate	465
2	Shale	467
5	Sand	471
2	Lime	473
12	Shale	485
1	Slate	486
13	Shale white	499
2	Lime shells	501
5	Shale	506
8	Sandy shale	514
4	Sandy shale	518
7	Sand broken	525
25	Sand	550
18	Shale	<b>568</b>
8	Sand	576
1	Shale	577
9	Sand	586
6	Sand	592
1	Lime	593
27	Shale	620

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:

No.	Distance from North Line of Section	Distance from East or West Line of Section
21W	330'	2043' E
22W	648'	2362' E
23W	648'	2679' E

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

Written comments or requests 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.

January 14, 1988

AFFIDAVIT OF PUBLICATION

STATE OF MISSOURI SS.  
COUNTY OF CASS

Wm. E. James, being duly sworn according to law, says that he is the publisher of the Belton-Raymore 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 the Laws of Missouri, of 1937, Page 431; and that the notice hereto annexed was published in said paper for one week consecutively, as follows:

- 1st insertion, Vol. 96 No. 35 dated 1/14, 1988.
- 2nd insertion Vol. .... No. .... dated ....., 19.....
- 3rd insertion, Vol. .... No. .... dated ....., 19.....
- 4th insertion, Vol. .... No. .... dated ....., 19.....
- 5th insertion, Vol. .... No. .... dated ....., 19.....
- 6th insertion, Vol. .... No. .... dated ....., 19.....

Printer's Fee, \$ 17.63

*Wm. E. James*  
.....  
Publisher

Subscribed and sworn to before me this 14th day of January  
19 88.

Witness my hand official seal.

*Dora E. Nation*  
.....  
Notary Public  
DORA E. NATION  
Notary Public - State of Missouri  
Cass County, Missouri  
My Commission Expires July 8, 1989

Probate Judge

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MO Oil & Gas Council  
Economic Geology

# TOWN OIL COMPANY

"Drilling and Production"

913-294-2125

Route 4  
Paola, Kansas 66071

March 29, 1988

Missouri Oil & Gas Council  
P.O. Box 250  
Rolla, Missouri 65401

**R E C E I V E D**  
MAR 31 1988

MO Oil & Gas Council  
Economic Geology

Gentlemen:

Enclosed are permits for Walton 21W, 22W and 23W along with a current publication from the Star-Herald. These wells were approved by your office in 1984 but were not drilled. We were notified by your office that we needed a current publication in order for them to be re-approved.

If you require further information or have any questions, please contact us.

Sincerely,

*Lester Town*  
*by LTB*

Lester Town

LT?DB

MECHANICAL INTEGRITY TEST REPORT

Test Date: 8-29-03

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

Lease WALTON Well # 23-W  
County CASS Permit # 20433

TEST INFORMATION:

Type MIT: Pressure  Radioactive Tracer Survey  Temperature Survey

	Run #1	Run #2	Run #3
Start Time:	<u>10:40</u>	_____	_____
End Time:	<u>12:03</u>	_____	_____
Length of Test: (Start Time minus End Time)	<u>1hr, 23 min</u>	_____	_____

Initial Pressure (FSI): 230 #  
Ending Pressure (FSI): 230 #  
Pressure Change:  
(Initial Pressure minus Ending Pressure) 0 #

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

Comments about test: 548' fluid 235 # calculated  
Perfs 548'-564'

Fluid depression test

The bottom of the tested zone is shut in with float shoe + cement at a depth of 548' 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 R. Hamblee 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 8-29-03  
Computer Update \_\_\_\_\_ FILE WITH PERMIT!

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 # 23-W  
County CASS Permit # 20433

TEST INFORMATION:

Type MIT: Pressure  Radioactive Tracer Survey  Temperature Survey

	Run #1	Run #2	Run #3
Start Time:	<u>9:45</u>		
End Time:	<u>10:15</u>		

Length of Test: 30 min  
(Start Time minus End Time)

Initial Pressure (PSI): 1804  
Ending Pressure (PSI): 1704

Pressure Change: 104  
(Initial Pressure minus Ending Pressure)

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

Comments about test: 305' x .433 = 1324  
perf - 548-564'  
243' to fluid

The bottom of the tested zone is shut in with float Stone & Cement at a depth of 548' ft. In signing the form below, it is certified that the above indicated well was tested for mechanical integrity on the data shown at the top of this page.

Signed: Lester Town Operator Contact Person or Approved Agent  
Agent Title

DO NOT WRITE BELOW THIS LINE

Results were: Satisfactory  Not Satisfactory   
State Agent: QBS Witnessed: Yes  No   
REMARKS: Witnessed E led Party / EPA  
Computer Update gfy FILE WITH PERMIT!

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 # 23-W  
County CASS Permit # 20433

TEST INFORMATION:

Type MIT: Pressure  Radioactive Tracer Survey  Temperature Survey

	Run #1	Run #2	Run #3
Start Time:	<u>6:30</u>	<u>7:00</u>	<u>7:35</u>
End Time:	<u>7:00</u>	<u>7:30</u>	<u>8:05</u>

Length of Test: 30 min  
(Start Time minus End Time)

Initial Pressure (PSI):	<u>100</u>	<u>100</u>	<u>100</u>
Ending Pressure (PSI):	<u>70</u>	<u>70</u>	<u>70</u>

Pressure Change: \_\_\_\_\_  
(Initial Pressure minus Ending Pressure)

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

Comments about test: Fluid Depression  
Perf 548-564

162' of Fluid in Hole X, 43 = 69.999

The bottom of the tested zone is shut in with Float Shoe & Cement at a depth of 549 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. Hambrick EOR  
Operator Contact Person or Title  
Approved Agent

DO NOT WRITE BELOW THIS LINE

Results were: Satisfactory  Not Satisfactory   
State Agent: E K B Witnessed: Yes  No

REMARKS: \_\_\_\_\_  
Computer Update 9/7/93 FILE WITH PERMIT!  
rk



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

FORM 576-5

INSTRUCTIONS 1 RECORD INJECTION RATE AND INJECTION PRESSURE AT 1 EAST MONTHLY WITH THE RESULTS SUBMITTED ANNUALLY.

MONTH	INJECTION RATE - bpd/gpm	PERMIT NUMBER	INJECTION PRESSURE - psig	OPERATOR	DATE MEASUREMENT TAKEN	WELL NUMBER	REMARKS
JAN. (01)	10	037	300	Tecor Oil Co.	1-28-06	Wellsboro 23-12	
FEB. (02)	10	20433			2-28-06		
MARCH (03)	10				3-28-06		
APRIL (04)	10				4-28-06		
MAY (05)	10				5-28-06		
JUNE (06)	10				6-28-06		
JULY (07)	10				7-28-06		
AUG. (08)	10				8-28-06		
SEPT. (09)	10				9-28-06		
OCT. (10)	10				10-28-06		
NOV. (11)	10				11-28-06		
DEC. (12)	10				12-28-06		

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AUG 24 2007

Oil & Gas County

MISSOURI DEPARTMENT OF NATURAL RESOURCES  
GEOLOGICAL SURVEY PROGRAM  
P.O. BOX 250, HOLLAND MISSOURI 64302-0250  
TEL: 816-339-5800 FAX: 816-339-5801



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

FORM 09C-12

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

COUNTY	PERMIT NUMBER	OPERATOR	WELL NUMBER
CASS	20433	TOWN OIL COMPANY	WALTON 23-W
MONTH	INJECTION RATE - bpd/lgpm	INJECTION PRESSURE - psig	DATE MEASUREMENT TAKEN
JAN. (01)	10	300	1-31-08
FEB. (02)	10	300	2-28-08
MARCH (03)	10	300	3-31-08
APRIL (04)	10	300	4-30-08
MAY (05)	10	300	5-31-08
JUNE (06)	10	300	6-30-08
JULY (07)	10	300	7-31-08
AUG. (08)	10	300	8-31-08
SEPT. (09)	10	300	9-30-08
OCT. (10)	10	300	10-31-08
NOV. (11)	10	300	11-30-08
DEC. (12)	10	300	12-31-08

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JAN 23 2009

MO Oil & Gas Council

MO 780-0208 (8-06)

REMIT TWO (2) COPIES TO: GEOLOGICAL SURVEY PROGRAM, P.O. BOX 250, ROLLA MO 65402, (673) 368-2143  
 ONE (1) COPY WILL BE RETURNED



GEOLOGICAL SURVEY PROGRAM  
INJECTION WELL MONITORING REPORT

INSTRUCTIONS		RECORD INJECTION RATE AND INJECTION PRESSURE AT LEAST MONTHLY WITH THE RESULTS SUBMITTED ANNUALLY.		
COUNTY	CASS	PERMIT NUMBER	OPERATOR	WELL NUMBER
		20433	TOWN OIL COMPANY	WALTON 23-W
MONTH	INJECTION RATE - bpd/gpm	INJECTION PRESSURE - psig	DATE MEASUREMENT TAKEN	REMARKS
JAN. (01)	10	300	1-31-09	<b>RECEIVED</b> JAN 25 2010
FEB. (02)	10	300	2-28-09	
MARCH (03)	10	300	3-31-09	Mo Oil & Gas Council
APRIL (04)	10	300	4-30-09	
MAY (05)	10	300	5-31-09	
JUNE (06)	10	300	6-30-09	
JULY (07)	10	300	7-31-09	
AUG. (08)	10	300	8-31-09	
SEPT. (09)	10	300	9-30-09	
OCT. (10)	10	300	10-31-09	
NOV. (11)	10	300	11-30-09	
DEC. (12)	10	300	12-31-09	

MO 780-0208 (6-06)

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FORM OGC-7

MAR 25 2013



STATE OF MISSOURI  
MISSOURI DEPARTMENT OF NATURAL RESOURCES  
GEOLOGICAL SURVEY PROGRAM  
**PLUGGING RECORD**

OWNER'S NAME <b>Kansas Resource Exploration &amp; Development, LLC</b>		ADDRESS <b>9393 W 110th Street, Ste. 500</b>			
NAME OF LEASE <b>Walton</b>		WELL NUMBER <b>23W</b>	PERMIT NUMBER (OGC-3 OR OGC-31 NUMBER) <b>037-20433</b>		
LOCATION OF WELL SEC TWN RNG OR BLOCK AND SURVEY <b>Sec. 4 Township 46 North Range 33 <input type="checkbox"/> East <input checked="" type="checkbox"/> West</b>		LATITUDE <b>N38 50' 37.48"</b>	LONGITUDE <b>W94 34' 27.06"</b>	COUNTY <b>Cass</b>	
APPLICATION TO DRILL THIS WELL WAS FILED IN NAME OF: <b>Town Oil Company</b>		HAS THIS WELL EVER PRODUCED OIL OR GAS? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHARACTER OF WELL AT COMPLETION (INITIAL PRODUCTION) OIL (BBLSDAY) <b>1</b> GAS (MCF/DAY) <b>0</b>		DRY? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
DATE OF ABANDONMENT <b>03/01/2013</b>	TOTAL DEPTH <b>620'</b>	AMOUNT WELL PRODUCING PRIOR TO ABANDONMENT OIL (BBLSDAY) <b>Injection</b> GAS (MCF/DAY) <b>Injection</b>		WATER (BBLSDAY) <b>Injection</b>	
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.	
<b>Squirrel Sandstone</b>		<b>Oil and Water</b>	<b>510-583</b>	<b>Squeezed 69 sks of Portland from surface to 607', topped off the well with 5 additional sks of Portland, shut in with 2" valve</b>	
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
<b>2 7/8"</b>	<b>607'</b>	<b>0</b>	<b>607'</b>	<b>N/A</b>	<b>None</b>
WAS WELL FILLED WITH MUD-LADEN FLUID? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		INDICATE DEEPEST FORMATION CONTAINING FRESH WATER <b>None</b>			
<b>NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE</b>					
NAME		ADDRESS		DIRECTION FROM THIS WELL	
<b>Maclaughlin, J.R. and A</b>		<b>1103 W47th, Apt B Kansas City, MO 64112</b>		<b>West</b>	
<b>Beary, Helen</b>		<b>28 Briar Oaks Ln Reeds Springs, Mo 65737</b>		<b>East</b>	
<b>Michael Effertz Farms LLC</b>		<b>16401 HOLMES RD, BELTON, MO 64012</b>		<b>South</b>	
<b>Colt Energy, Rhoden Lease</b>		<b>4330 Shawnee Mssn Pky Fairway ks 66205</b>		<b>North</b>	
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)				
<p><b>CERTIFICATE</b> I, the undersigned, state that I am the <u>Chief Operating Officer</u> of the <u>Kansas Resource Exploration and Development, LLC</u> (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.</p>					
SIGNATURE 					DATE <b>03/03/2013</b>