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	42-W	approx 1050'

WELL LOCATION (give footage from section lines) 1520 ft. from (N) ~~(S)~~ sec line 2763 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 460 feet

Distance from proposed location to nearest drilling, completed or applied — for well on the same lease 200 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 Lila Town

Permit Number 20554

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 Luetta 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 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 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 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; permeability 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.
LEASE NAME: Walton	WELL NUMBER: 42W
LOCATION: 1520' FNL 2763' FEL	SEC. TWP. AND RANGE OR BLOCK AND SURVEY: 4-26-33
COUNTY: Cass	PERMIT NUMBER (OGC-3 OR OGC-31): 20554

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
10-7-92	10-9-92	12-14-92		

TOTAL DEPTH	PLUG BACK TOTAL DEPTH
600	

PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION	ROTARY TOOLS USED (INTERVAL)	CABLE TOOLS USED (INTERVAL)
Squirrel	0 TO 600	
	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
Copy of 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	$6\frac{1}{4}$		21'2"	3	0
Completion	5 5/8	2 7/8		585	114	0

TUBING RECORD

SIZE IN.	DEPTH SET FEET	PACKER SET AT FEET

LINER RECORD

SIZE INCH	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	552-565

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
5 sx 12x30 sand 15 sx 10x20 sand	552-565

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 $1\frac{1}{2}$x4'

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	--	14

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

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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.

DATE	SIGNATURE
June 8, 1993	Luter Town

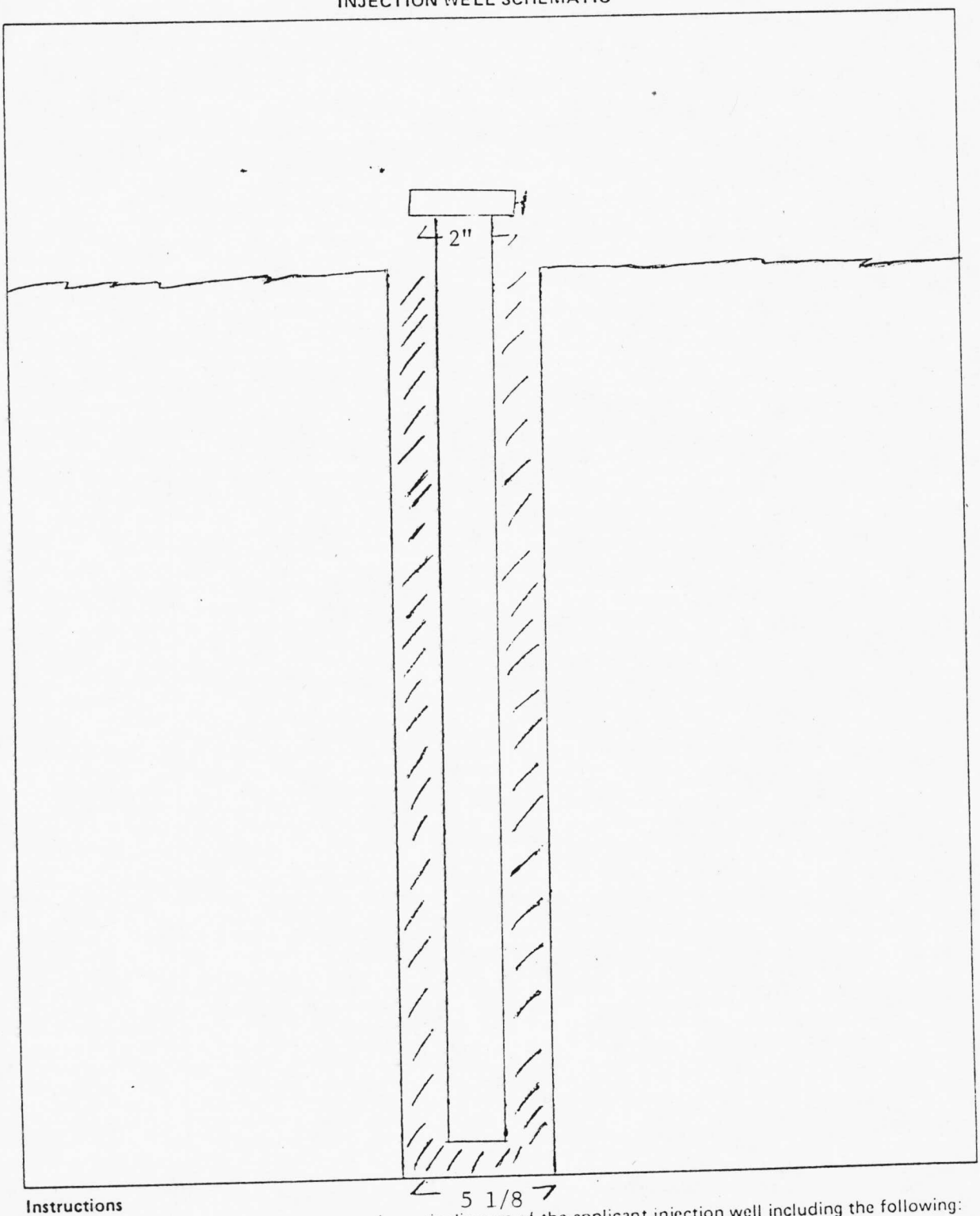
MO 780-0215 (1-86) (Rev. 1-86)

County Cass Permit # _____ Operator ~~Town Oil Co.~~ Well # 42-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"

913-294-2125

Route 4
Paola, Kansas 66071

Well #42-W
Farm: Walton
Cass County, MO.
Lease Owner: Town Oil Co.

WELL LOG

Thickness of Strata	Formation	Total Depth	
0-10	Soil & clay	10	
5	Lime	15	
28	Shale	43	
10	Lime	53	
16	Shale	69	
6	Red bed	75	
5	Shale	80	
6	Lime	86	
26	Shale	112	
1	Lime	113	
8	Shale	121	
2	Lime	123	
13	Shale	138	
27	Lime	165	
7	Shale & slate	172	
20	Lime	192	
4	Shale & slate	196	
2	Lime	198	
4	Shale & slate	202	
6	Lime	208	Hertha
3	Shale shells	211	
4	Sand	215	
34	Shale	249	
11	Sand	260	
45	Shale	305	
14	Sand	319	
23	Shale	342	
9	Sand	351	
6	Shale	357	
4	Sandy shale	361	
8	Shale	369	
4	Sand	373	
12	Shale	385	
6	Lime	391	
5	Shale	396	
3	Lime	399	
6	Shale	405	
10±	Lime	415	
4	Sand	419	
12	Shale	431	
5	Lime	436	
5	Slate	441	
9	Sand	450	
36	Shale	486	
8	Sand	494	
15	Sand	509	
26	Sand	535	
3	Lime	538	

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Well # 42-W
Farm: Walton
Cass County, MO.
Lease Owner: Town Oil Co.

WELL LOG (cont'd)

Thickness of Strata	Formation	Total Depth
1	Sandy lime	539
3	Sandy shells	542
6	Shale	548
17	Sand	565
10	Lime	575
25	Sand	600 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
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

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

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. 42 W

Farm WALTON

(State) (County)

(Section) (Township) (Range)

For

(Well Owner)

TOWN OIL CO.

Route 4

Paola, Kansas 66071

913-294-2125

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WALTON Farm: CASS County

Mo State; Well No. 42-W

Elevation

Commenced Spuding 10-7, 19 92

Finished Drilling 10-9, 19 92

Driller's Name

Driller's Name

Driller's Name HAGGARD

Tool Dresser's Name

Tool Dresser's Name

Tool Dresser's Name BRENT

Contractor's Name

(Section) (Township) (Range)

Distance from line, ft.

Distance from line, ft.

5 7/8 HOLE

CASING AND TUBING RECORD

3 SACKS CEMENT

10" Set		10" Pulled	
8" Set		8" Pulled	
6¼" Set	21 2	6¼" Pulled	
4" Set		4" Pulled	
2" Set		2" Pulled	

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
31	6	404	—		
31	7	30	8		
63	30	434	80		
31	6	30	5		
94	90	465	30		
30	70	31	2		
125	60	496	50		
31	60	30	20		
157	20	526	70		
31	7	32	20		
188	90	558	90		
29	30	31	50		
218	20	590	40	TOW PIPE	
30	8	500			
249	—	585	00	TO P.N	
31	7				
280	70				
31	8				
312	50				
31	—				
343	50				
30	9				
374	40				
29	6				
404	—				

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Thickness of Strata	Formation	Total Depth	Remarks
0-10	Soild Clay	10	
5	LIME	15	
28	SHALE	43	
10	LIME	53	
16	SHALE	69	
6	RedBed	75	
5	SHALE	80	
6	LIME	86	
26	SHALE	112	
1	LIME	113	
8	SHALE	121	
2	LIME	123	
13	SHALE	138	
27	LIME	165	Winterset
7	SHALE & SLATE	172	
20	LIME	192	Bethany Falls
4	SHALE & SLATE	196	
2	LIME	198	Sinabar
4	SHALE & SLATE	202	
6	LIME	208	Hertha
3	SHALE shells	211	
4	SAND	215	
34	SHALE	249	
11	SAND	260	
45	SHALE	305	
14	SAND	319	

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Thickness of Strata	Formation	Total Depth	Remarks
		319	
23	SHALE	342	
9	SAND	351	
6	SHALE	357	
4	sandy shale	361	
8	shale	369	
4	SAND	373	
12	SHALE	385	
6	Lime	391	
5	SHALE	396	
3	Lime	399	
6	SHALE	405	
10	Lime	415	Broken
4	SAND	419	LT oil show
12	SHALE	431	
5	Lime	436	
5	SLATE	441	
9	SAND	450	LT oil show
36	SHALE	486	
8	SAND	494	gray no show
15	SAND	509	Lam oil show
per 26	SAND	535	Poor's good oil show
3	Lime	538	
1	SANDY Lime	539	oil show
3	Sandy shells	542	Junk No good
6	SHALE	548	COAED
per. 17	SAND	565	Sol. & poor's V good oil show

(8 9 5 1 0 1 5 2 8 0 0)

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Thickness of Strata	Formation	Total Depth	Remarks
10	LIME	525	
25	SAND	600	BLACK poor oil show
	600 T.D.		
1	JT 6¼	21'2"	
3	SACKS cement		
3	COGS	58'	
1	P.T		
1	4½ on 2⅞ PIPE		

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STATION Ottawa OPERATOR Fred Mader

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 27-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 1/2 596			Pin		Type & Brand	Portland A. Poz Mix		
		Type		Rotary	AIR			Admixes	2% Gel 2 Gel Allowed		

FRACTURING - ACIDIZING SERVICE DATA

ca. 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	@			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.)	@			
Own Water	@			
			Tax	68.07
			Total	$ 1931.77

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

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	$

13320

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NSCO-18936

CONSOLIDATED OIL WELL SERVICES, INC.

P.O. Box 8
Chanute, Kansas
Phone (316) 431-9

Ticket 15839

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

Charge To: Town Oil

Well Name and Number: Walton #42-W

Tucson Guirolle

Mailing Address: R#4

Representative:

Order Number:

City & State: Paola KS 66071

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 1/2" EUE 8		552	565	4 BBLS
CASING					
ANNULUS					
OPEN HOLE					

MATERIALS AND CONCENTRATION

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

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.
1000	1500	
INJ. RATE - TREAT	FLUSH	AVG.
20 Bpm		
HYDRAULIC HP USED	I.S.I.P.	FINAL
1000		200
PERFORATIONS		
20 shots		1300 Brk

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EXPLANATION

ARRIVE LOCATION _____ ROUND TRIP MILES

2ND - 5-wells

FRACTURING - ACIDIZING

		Office Use	$
Pumping Charge INT			
Pumping Charge	@		$ 500
5 sks 12x30 Sand	@		32.50
15 sks 10x20 Sand	@		103.50
x Sand	@		
Ton Mileage 120	@		60
~~Gals. Acid~~	@		
~~Chemicals~~	@		
Had over Clay stay	@		
	@		
	@		
	@		
	@		
Potassium Chloride	@		
1 sk Rock Salt #50	@		6.00
1 sk Water Gel #50	@		12.50
Transport Truck (2 Hrs.)	@		108.00
Vac Truck (Hrs.)	@		
		Tax	
		Total	$ 935.00

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

MECHANICAL INTEGRITY TEST REPORT

Test Date: 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 # 42-W
County CASS Permit # 20554

TEST INFORMATION:

Type MIT: Pressure ✓ Radioactive Tracer Survey___ Temperature Survey___

	Run #1	Run #2	Run #3
Start Time:	8:05 am		
End Time:	11:46 am		
Length of Test: (Start Time minus End Time)	3 hr, 41 min		
Initial Pressure (PSI):	105#		
Ending Pressure (PSI):	97#		
Pressure Change: (Initial Pressure minus Ending Pressure)	-8#		

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

Comments about test:
Top Perf 552'
Water Column 246' (246')(.433) = 106.5
Fluid depression test, w/in 9%

The bottom of the tested zone is shut in with float shoe + cement at a depth of 552' 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. Hamnke 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 # 42-W
County CASS Permit # 20554

TEST INFORMATION:

Type MIT: Pressure ✓ Radioactive Tracer Survey___ Temperature Survey___

	Run #1	Run #2	Run #3
Start Time:	12:25pm		
End Time:	1:00pm		
Length of Test: (Start Time minus End Time)	35pm		
Initial Pressure (PSI):	123#		
Ending Pressure (PSI):	118#		
Pressure Change: (Initial Pressure minus Ending Pressure)	5#		

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

Comments about test: 287 x .433 = 123#
Top perf. 552' Fluid level 265'

The bottom of the tested zone is shut in with Float Shoe and Cement at a depth of 552 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. Hornbuckle — Operator Contact Person or Approved Agent

Eo R — Title

DO NOT WRITE BELOW THIS LINE

Results were: Satisfactory ✓ Not Satisfactory___
State Agent: Theodore R Fry Witnessed: Yes ✓ No___
REMARKS:
Computer Update 9/15

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 # 42-W
County CASS Permit # 20554

TEST INFORMATION:

Type MIT: Pressure___ Radioactive Tracer Survey___ Temperature Survey___

	Run #1	Run #2	Run #3
Start Time:	12:45		
End Time:	13:15		
Length of Test: (Start Time minus End Time)	30		
Initial Pressure (PSI):	83#		
Ending Pressure (PSI):	83#		
Pressure Change: (Initial Pressure minus Ending Pressure)			

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

Comments about test: Perf 552-565 Fluid Depression Test
Fluid 193' above Perf X .43 = 83#

The bottom of the tested zone is shut in with Float Shoe & Cement at a depth of 552 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. Kb Witnessed: Yes___ No ✓
REMARKS:
Computer Update 9/7/93 CK FILE WITH PERMIT!

OGC 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

1520 Feet from ~~South~~ North Section Line
2763 Feet from East Section Line

Lease WALton Well # 42-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		6 1/4	2 7/8		Size
Set at		20	583		Set at
Cement Top		0	0		Type
" Bottom		20	583		

DV/Perf. _____ TD (and plug back) 583 ft. depth
Packer type _____ Size _____ Set at _____
Zone of injection 550 ft. to ft. 574 Perf. or open hole _____

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

FIELD DATA

Time: Start 1:40 Min. 1:55 Min. _____ Min.

Pressures: 705# 705# _____ 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 583 feet

was the zone tested Sterling P. Hornbuckle (Signature) EOR (Title)

The results were Satisfactory X, 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 2016-02

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

COUNTY	PERMIT NUMBER	OPERATOR	WELL NUMBER
Cass	037 20554	Town Oil Co.	Walton 42-W

MONTH	INJECTION RATE - bpd/gpm	INJECTION PRESSURE - psig	DATE MEASUREMENT TAKEN	REMARKS
(01) JAN.	77	300	1-28-06	
(02) FEB.	77		2-28-06	
(03) MARCH	77		3-28-06	
(04) APRIL	77		4-28-06	
(05) MAY	77		5-28-06	
(06) JUNE	77		6-28-06	
(07) JULY	77		7-28-06	
(08) AUG.	77		8-28-06	
(09) SEPT.	77		9-28-06	
(10) OCT.	77		10-28-06	
(11) NOV.	77		11-28-06	
(12) DEC.	77		12-28-06	

RECEIVED
AUG 24 2007
Mo Oil & Gas Council

FORM 2016

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

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	20554	TOWN OIL COMPANY	WALTON 42-W

MONTH	INJECTION RATE - bpd/gpm	INJECTION PRESSURE - psig	DATE MEASUREMENT TAKEN	REMARKS
(01) JAN.	77	300	1-31-08	RECEIVED
(02) FEB.	77	300	2-28-08	JAN 23 2009
(03) MARCH	77	300	3-31-08	Mo Oil & Gas Council
(04) APRIL	77	300	4-30-08	
(05) MAY	77	300	5-31-08	
(06) JUNE	77	300	6-30-08	
(07) JULY	77	300	7-31-08	
(08) AUG.	77	300	8-31-08	
(09) SEPT.	77	300	9-30-08	
(10) OCT.	77	300	10-31-08	
(11) NOV.	77	300	11-30-08	
(12) DEC.	77	300	12-31-08	

MO 780-0208 (8-06)

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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	CASS	PERMIT NUMBER	20554	OPERATOR: TOWN OIL COMPANY; WELL NUMBER: WALTON 42-W

MONTH	INJECTION RATE - bpd/gpm	INJECTION PRESSURE - psig	DATE MEASUREMENT TAKEN	REMARKS
(01) JAN.	77	300	1-31-09	RECEIVED
(02) FEB.	77	300	2-28-09	JAN 25 2010
(03) MARCH	77	300	3-31-09	Mo Oil & Gas Council
(04) APRIL	77	300	4-30-09	
(05) MAY	77	300	5-31-09	
(06) JUNE	77	300	6-30-09	
(07) JULY	77	300	7-31-09	
(08) AUG.	77	300	8-31-09	
(09) SEPT.	77	300	9-30-09	
(10) OCT.	77	300	10-31-09	
(11) NOV.	77	300	11-30-09	
(12) DEC.	77	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 #: 20554 Date Issued: 10-23-92

County: Date Cancelled:

CONFIDENTIAL UNTIL: Date Plugged:

OGC FORMS	Date Received
1	
2	
3	~~10-5-92~~
3i	10-23-92
4	
4i	
5	7-9-93
6	
7	
8	
11	10-23-92
12	
Misc. Form 2	

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

Additional Submitted Data:

MIT 8-10-93

COMMENTS:

~~converted~~ to wyeline 10/23/92

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	42-W	approx 1050'

WELL LOCATION (give footage from section lines) 1520 ft. from (N) ~~(S)~~ sec line 2763 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 460 feet

Distance from proposed location to nearest drilling, completed or applied — for well on the same lease 200 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 Lilly Town

Permit Number 20554

Approved Date 10/23/92

Approved by Jasper Holly Williams

☐ 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 Luella 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	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	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 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; permeability 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.
LEASE NAME: Walton	WELL NUMBER: 42W
LOCATION: 1520' FNL 2763' FEL	SEC. TWP. AND RANGE OR BLOCK AND SURVEY: 4-26-33
COUNTY: Cass	PERMIT NUMBER (OGC-3 OR OGC-31): 20554

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
10-7-92	10-9-92	12-14-92		

TOTAL DEPTH	PLUG BACK TOTAL DEPTH
600	

PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION	ROTARY TOOLS USED (INTERVAL)	CABLE TOOLS USED (INTERVAL)
Squirrel	0 TO 600 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
Copy of 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		21'2"	3	0
Completion	5 5/8	2 7/8		585	114	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	552-565

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
5 sx 12x30 sand 15 sx 10x20 sand	552-565

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	--	14

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

RECEIVED
JUL 09 1993
MO Oil & Gas Council

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.

DATE	SIGNATURE
June 8, 1993	Luke Tower

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

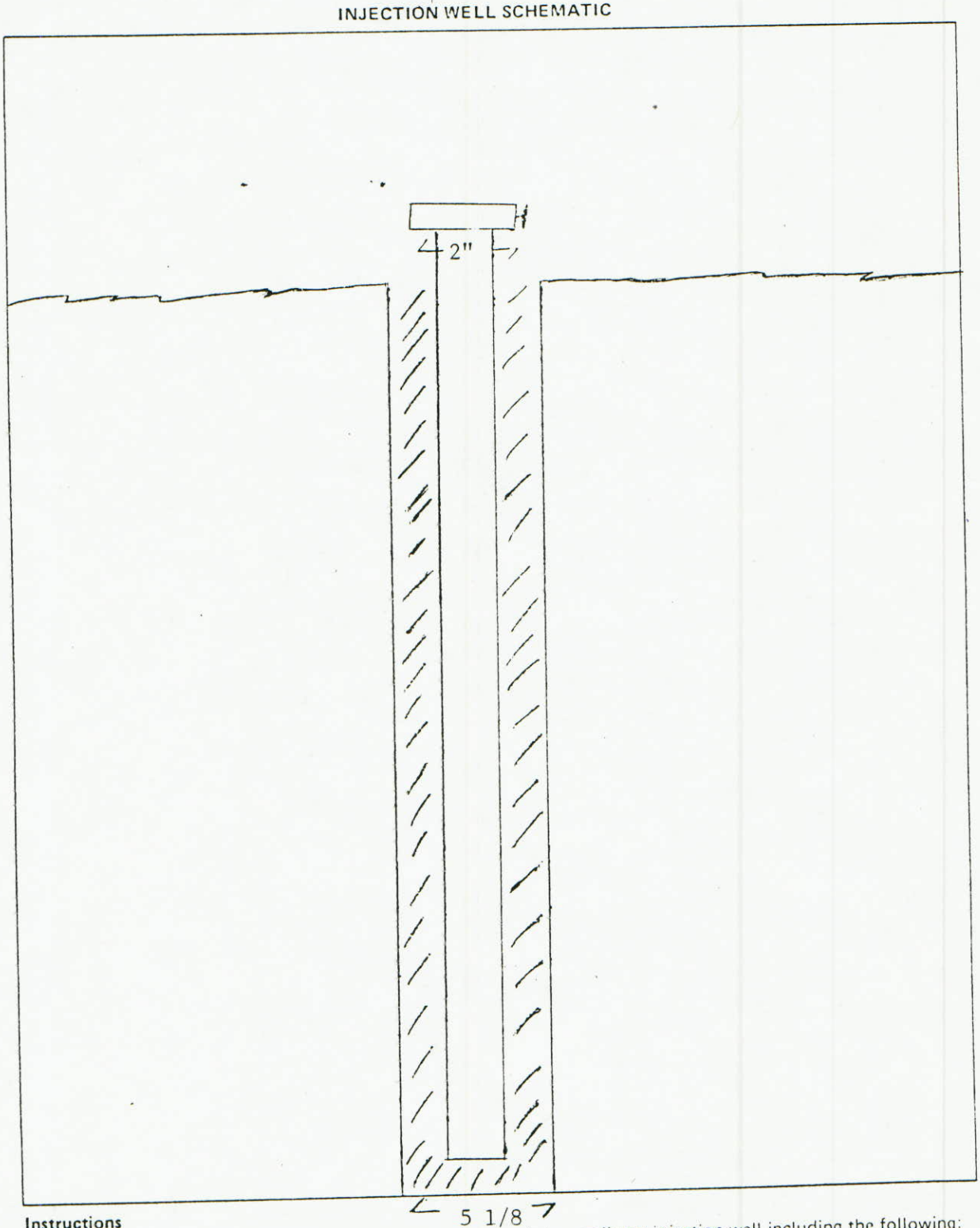
FORMATION	TOP	BOTTOM	DESCRIPTION (SEE * ABOVE)

County Cass Permit # _____ Operator ~~Town Oil Co.~~ Well # 42-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

Well # 42-W
Farm: Walton
Cass County, MO.
Lease Owner: Town Oil Co.

WELL LOG

Thickness of Strata	Formation	Total Depth	
0-10	Soil & clay	10	
5	Lime	15	
28	Shale	43	
10	Lime	53	
16	Shale	69	
6	Red bed	75	
5	Shale	80	
6	Lime	86	
26	Shale	112	
1	Lime	113	
8	Shale	121	
2	Lime	123	
13	Shale	138	
27	Lime	165	
7	Shale & slate	172	
20	Lime	192	
4	Shale & slate	196	
2	Lime	198	
4	Shale & slate	202	
6	Lime	208	Hertha
3	Shale shells	211	
4	Sand	215	
34	Shale	249	
11	Sand	260	
45	Shale	305	
14	Sand	319	
23	Shale	342	
9	Sand	351	
6	Shale	357	
4	Sandy shale	361	
8	Shale	369	
4	Sand	373	
12	Shale	385	
6	Lime	391	
5	Shale	396	
3	Lime	399	
6	Shale	405	
10±	Lime	415	
4	Sand	419	
12	Shale	431	
5	Lime	436	
5	Slate	441	
9	Sand	450	
36	Shale	486	
8.	Sand	494	
15	Sand	509	
26	Sand	535	
3	Lime	538	

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Well # 42-W
Farm: Walton
Cass County, MO.
Lease Owner: Town Oil Co.

WELL LOG (cont'd)

Thickness of Strata	Formation	Total Depth
1	Sandy lime	539
3	Sandy shells	542
6	Shale	548
17	Sand	565
10	Lime	575
25	Sand	600 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:

October 8 19 92
_____ 19____
_____ 19____
_____ 19____
_____ 19____
_____ 19____
_____ 19____

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

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
1416	04/25/84	TOWN C
1417	04/24/84	TOWN C
1418	04/25/84	TOWN C
1420	04/25/84	TOWN C
1421	04/24/84	TOWN C
1422	04/24/84	TOWN C
1423	04/25/84	TOWN C
1424	04/25/84	TOWN C
1425	04/25/84	TOWN C
1426	04/24/84	TOWN C
1427	04/25/84	TOWN C
1428	04/25/84	TOWN C
1429	04/24/84	TOWN C
1430	04/25/84	TOWN C
1431	04/25/84	TOWN C
1432	04/25/84	TOWN C
1433	04/25/84	TOWN C
1434	04/25/84	TOWN C
1435	04/24/84	TOWN C
1436	04/25/84	TOWN C
1437	04/25/84	TOWN C
1438	09/02/77	TOWN C
1439	04/24/84	TOWN C
1440	04/25/84	TOWN C
1441	04/25/84	TOWN C
1442	04/25/84	TOWN C
1443	04/25/84	TOWN C
1444	04/24/84	TOWN C
1445	04/25/84	TOWN C
1446	04/24/84	TOWN C
1447	04/24/84	TOWN C
1448	04/25/84	TOWN C
1449	04/24/84	TOWN C
1450	04/25/84	TOWN C
1524	10/20/80	TOWN C
1525	10/20/80	TOWN C
1533	03/10/76	TOWN C
2014	03/05/76	TOWN C
3527	01/22/82	TOWN C

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

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. 42 W

Farm WALTON

(State) (County)

(Section) (Township) (Range)

For

(Well Owner)

TOWN OIL CO.

Route 4

Paola, Kansas 66071

913-294-2125

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WARTON Farm: CASS County

MO State; Well No. 42-W

Elevation

Commenced Spuding 10-2, 19 92

Finished Drilling 10-9, 19 92

Driller's Name

Driller's Name

Driller's Name HAGGARD

Tool Dresser's Name

Tool Dresser's Name

Tool Dresser's Name BASWT

Contractor's Name

(Section) (Township) (Range)

Distance from line, ft.

Distance from line, ft.

5 7/8 HOLE

CASING AND TUBING RECORD

3 SACKS CEMENT

10" Set		10" Pulled	
8" Set		8" Pulled	
6¼" Set	812	6¼" Pulled	
4" Set		4" Pulled	
2" Set		2" Pulled	

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
31	6	404	–		
31	7	30	8		
63	30	434	80		
31	6	30	5		
94	90	465	30		
30	70	31	2		
125	60	496	50		
31	60	30	20		
157	20	526	70		
31	7	32	20		
188	90	558	90		
29	30	31	50		
218	20	590	40	TOW PIP	
30	8	500			
249	–	585	0	TO P.N	
31	7				
280	70				
31	8				
312	50				
31	–				
343	50				
30	9				
374	40				
29	6				
404	–				

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Thickness of Strata	Formation	Total Depth	Remarks
0-10	Soil & Clay	10	
5	LIME	15	
28	SHALE	43	
10	LIME	53	
16	SHALE	69	
6	Red Bed	75	
5	SHALE	80	
6	LIME	86	
26	SHALE	112	
1	LIME	113	
8	SHALE	121	
2	LIME	123	
13	SHALE	138	
27	LIME	165	Winterset
7	SHALE & SLATE	172	
20	LIME	192	Bethany Falls
4	SHALE & SLATE	196	
2	LIME	198	Sinabar
4	SHALE & SLATE	202	
6	LIME	208	Hertha
3	SHALE Shells	211	
4	SAND	215	
34	SHALE	249	
11	SAND	260	
45	SHALE	305	
14	SAND	319	

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Thickness of Strata	Formation	Total Depth	Remarks
		319	
23	SHALE	342	
9	SAND	351	
6	SHALE	357	
4	sandy shale	361	
8	shale	369	
4	SAND	373	
12	SHALE	385	
6	LIME	391	
5	SHALE	396	
3	LIME	399	
6	SHALE	405	
10	LIME	415	Broken
4	SAND	419	LT oil show
12	SHALE	431	
5	LIME	436	
5	SHALE	441	
9	SAND	450	LT oil show
36	SHALE	486	
8	SAND	494	gray no show
15	SAND	509	Lam oil show
per 26	SAND	535	Poor's good oil show
3	LIME	538	
1	SAND & LIME	539	oil show
3	Sandy shells	542	Junk No good
6	SHALE	548	COAED
per. 17	SAND	565	Sol. & Poor's V good oil show

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Thickness of Strata	Formation	Total Depth	Remarks
10	LIME	525	
25	SAND	600	BLACK poor oil show
	600 T.D.		
1	JT 6¼	21'2"	
3	SACKS cement		
3	COGS	58'	
1	P.T		
1	HR on 2⅞ PIPE		

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STATION Ottawa OPERATOR Fred Mader

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 & 27-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'	Rotary		Pin		Type & Brand	Portland A. Poz Mix		
		Type			AIR			Admixes	2% Gel 2 Gel Allowed ea. well		

FRACTURING - ACIDIZING SERVICE DATA

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.)	@		
Own 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.

133201

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NSCO-18936

CONSOLIDATED OIL WELL SERVICES, INC.

P.O. Box 8
Chanute, Kansas
Phone (316) 431-9

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

Ticket 15839

Charge To: Town Oil
Well Name and Number: Walton #42-W
Tucson Guinotte
Mailing Address: R#4
Representative:
Order Number:
City & State: Paola Ks 66071
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 1/2" EUE 8		552	565	4 BBLS
CASING					
ANNULUS					
OPEN HOLE					

MATERIALS AND CONCENTRATION

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

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.
1000	1500	
INJ. RATE - TREAT	FLUSH	AVG.
20 Bpm		
HYDRAULIC HP USED	I.S.I.P.	FINAL
1000		200
PERFORATIONS		
20 shots		1300 Brk

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EXPLANATION

ARRIVE LOCATION _____ ROUND TRIP MILES

2ND - 5-wells

FRACTURING - ACIDIZING

		Office Use	$
Pumping Charge INT			
Pumping Charge	@		$ 500
5 sks 12x30 Sand	@		32.50
15 sks 10x20 Sand	@		103.50
x Sand	@		
Ton Mileage 120	@		60
~~Gals. Acid~~	@		
~~Chemicals~~	@		
Hard over Clay stay	@		
	@		
	@		
	@		
	@		
Potassium Chloride	@		
1 sk Rock Salt #50	@		6.00
1 sk Water Gel #50	@		12.50
Transport Truck (2 Hrs.)	@		108.00
Vac Truck (Hrs.)	@		
		Tax	
		Total	$ 935.00

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

MECHANICAL INTEGRITY TEST REPORT

Test Date: 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 # 42-W
County CASS Permit # 20554

TEST INFORMATION:

Type MIT: Pressure ✓ Radioactive Tracer Survey___ Temperature Survey___

	Run #1	Run #2	Run #3
Start Time:	8:05 am		
End Time:	11:46 am		
Length of Test: (Start Time minus End Time)	3 hr, 41 min		
Initial Pressure (PSI):	105#		
Ending Pressure (PSI):	97#		
Pressure Change: (Initial Pressure minus Ending Pressure)	-8#		

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

Comments about test:
Top Perf 552'
Water Column 246' (246')(.433) = 106.5
Fluid depression test, w/in 9%

The bottom of the tested zone is shut in with float shoe + cement at a depth of 552' 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. Hemmke — 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 # 42-W
County CASS Permit # 20554

TEST INFORMATION:

Type MIT: Pressure ✓ Radioactive Tracer Survey___ Temperature Survey___

	Run #1	Run #2	Run #3
Start Time:	12:25pm		
End Time:	1:00pm		
Length of Test: (Start Time minus End Time)	35pm		
Initial Pressure (PSI):	123#		
Ending Pressure (PSI):	118#		
Pressure Change: (Initial Pressure minus Ending Pressure)	5#		

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

Comments about test: 287 x .433 = 123#
Top perf. 552' Fluid level 265'

The bottom of the tested zone is shut in with Float Shoe and Cement at a depth of 552 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

EO R — Title

DO NOT WRITE BELOW THIS LINE

Results were: Satisfactory ✓ Not Satisfactory___
State Agent: Theodore R Fritz Witnessed: Yes ✓ No___
REMARKS:
Computer Update ✓

FILE WITH PERMIT!

OGC Misc Form 1

MECHANICAL INTEGRITY TEST REPORT

Test Date: 8/5/2008

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

Lease Walton Well # 42-W
County Cass Permit # 20554

TEST INFORMATION:

Type MIT: Pressure X Radioactive Tracer Survey___ Temperature Survey___

	Run #1	Run #2	Run #3
Start Time:	2:25		
End Time:	2:59		
Length of Test: (Start Time minus End Time)	34 min		
Initial Pressure (PSI):	220		
Ending Pressure (PSI):	200		
Pressure Change: (Initial Pressure minus Ending Pressure)	20 9% 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. Hamblee — EOR
Operator Contact Person or Approved Agent — Title

DO NOT WRITE BELOW THIS LINE

Results were: Satisfactory X Not Satisfactory___
State Agent: Jill Ryan Witnessed: Yes X No___
REMARKS:
Computer Update X 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 [ ]

1520 Feet from ~~South~~ North Section Line
2763 Feet from East Section Line

Date injection started _____
API #15 — — _____

Lease WALTON Well # 42-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	583		Set at
Cement Top		0	0		Type
" Bottom		20	583		

DV/Perf. _____ TD (and plug back) 583 ft. depth
Packer type _____ Size _____ Set at _____
Zone of injection 550 ft. to ft. 574 Perf. or open hole _____

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

FIELD DATA

Time: Start 1:40 Min. 1:55 Min. _____ Min.

Pressures: 705# 705# _____ 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 583 feet

was the zone tested Sterling P. Hombuckle (Signature) EOR (Title)

The results were Satisfactory X, 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

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

COUNTY	PERMIT NUMBER	OPERATOR	WELL NUMBER
Cass	20554	Town Oil Co.	Walton 42-W

MONTH	INJECTION RATE - bpd/gpm	INJECTION PRESSURE - psig	DATE MEASUREMENT TAKEN	REMARKS
(01) JAN.	77	300	1-28-04	
(02) FEB.	77		2-28-04	
(03) MARCH	77		3-28-04	
(04) APRIL	77		4-28-04	
(05) MAY	77		5-28-04	
(06) JUNE	77		6-28-04	
(07) JULY	77		7-28-04	
(08) AUG.	77		8-28-04	
(09) SEPT.	77		9-28-04	
(10) OCT.	77		10-28-04	
(11) NOV.	77		11-28-04	
(12) DEC.	77		12-28-04	

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Mo Oil & Gas Council

MO 780-0308 (8-05)

REMIT TWO (2) COPIES TO: GEOLOGICAL SURVEY PROGRAM, PO 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

TOTAL P.02

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

COUNTY	PERMIT NUMBER	OPERATOR	WELL NUMBER
Cass	20554	Town Oil Co.	Walton 42-W

MONTH	INJECTION RATE - bpd/gpm	INJECTION PRESSURE - psig	DATE MEASUREMENT TAKEN	REMARKS
(01) JAN.	77	300	1-28-05	
(02) FEB.	77		2-28-05	
(03) MARCH	77		3-28-05	
(04) APRIL	77		4-28-05	
(05) MAY	77		5-28-05	
(06) JUNE	77		6-28-05	
(07) JULY	77		7-28-05	
(08) AUG.	77		8-28-05	
(09) SEPT.	77		9-28-05	
(10) OCT.	77		10-28-05	
(11) NOV.	77		11-28-05	
(12) DEC.	77		12-28-05	

RECEIVED
AUG 24 2007
Mo Oil & Gas Council

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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	039 20554	Town Oil Co.	Walton 42-W

MONTH	INJECTION RATE - bpd/gpm	INJECTION PRESSURE - psig	DATE MEASUREMENT TAKEN	REMARKS
(01) JAN.	77	300	1-28-06	
(02) FEB.	77		2-28-06	
(03) MARCH	77		3-28-06	
(04) APRIL	77		4-28-06	
(05) MAY	77		5-28-06	
(06) JUNE	77		6-28-06	
(07) JULY	77		7-28-06	
(08) AUG.	77		8-28-06	
(09) SEPT.	77		9-28-06	
(10) OCT.	77		10-28-06	
(11) NOV.	77		11-28-06	
(12) DEC.	77		12-28-06	

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MO 780-0008 (6-05)

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
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: Cass	PERMIT NUMBER: 20554	OPERATOR: Town Oil Co.	WELL NUMBER: Walton 42-W

MONTH	INJECTION RATE - bpd/gpm	INJECTION PRESSURE - psig	DATE MEASUREMENT TAKEN	REMARKS
(01) JAN.	77	300	1-28-07	RECEIVED
(02) FEB.	77	300	2-28-07	FEB 29 2008
(03) MARCH	77	300	3-28-07	Mo Oil & Gas Council
(04) APRIL	77	300	4-28-07	
(05) MAY	77	300	5-28-07	
(06) JUNE	77	300	6-28-07	
(07) JULY	77	300	7-28-07	
(08) AUG.	77	300	8-28-07	
(09) SEPT.	77	300	9-28-07	
(10) OCT.	77	300	10-28-07	
(11) NOV.	77	300	11-28-07	
(12) DEC.	77	300	12-28-07	

MO 780-0018 (5-06)

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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	20554	TOWN OIL COMPANY	WALTON 42-W

MONTH	INJECTION RATE - bpd/gpm	INJECTION PRESSURE - psig	DATE MEASUREMENT TAKEN	REMARKS
(01) JAN.	77	300	1-31-08	RECEIVED
(02) FEB.	77	300	2-28-08	JAN 23 2009
(03) MARCH	77	300	3-31-08	Mo Oil & Gas Council
(04) APRIL	77	300	4-30-08	
(05) MAY	77	300	5-31-08	
(06) JUNE	77	300	6-30-08	
(07) JULY	77	300	7-31-08	
(08) AUG.	77	300	8-31-08	
(09) SEPT.	77	300	9-30-08	
(10) OCT.	77	300	10-31-08	
(11) NOV.	77	300	11-30-08	
(12) DEC.	77	300	12-31-08	

MO 780-0208 (8-06)

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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	20554	TOWN OIL COMPANY	WALTON 42-W

MONTH	INJECTION RATE - bpd/gpm	INJECTION PRESSURE - psig	DATE MEASUREMENT TAKEN	REMARKS
(01) JAN.	77	300	1-31-09	
(02) FEB.	77	300	2-28-09	
(03) MARCH	77	300	3-31-09	
(04) APRIL	77	300	4-30-09	
(05) MAY	77	300	5-31-09	
(06) JUNE	77	300	6-30-09	
(07) JULY	77	300	7-31-09	
(08) AUG.	77	300	8-31-09	
(09) SEPT.	77	300	9-30-09	
(10) OCT.	77	300	10-31-09	
(11) NOV.	77	300	11-30-09	
(12) DEC.	77	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	20554	TOWN OIL COMPANY	WALTON 42-W

MONTH	INJECTION RATE - bpd/gpm	INJECTION PRESSURE - psig	DATE MEASUREMENT TAKEN	REMARKS
(01) JAN.	77	300	~~12~~ 1-31-10	RECEIVED
(02) FEB.	77	300	~~12~~ 2-28-10	JAN 20 2011
(03) MARCH	77	300	~~12~~ 3-31-10	Mo Oil & Gas Council
(04) APRIL	77	300	~~12~~ 4-30-10	
(05) MAY	77	300	~~12~~ 5-31-10	
(06) JUNE	77	300	~~12~~ 4-30-10	
(07) JULY	77	300	~~12~~ 7-31-10	
(08) AUG.	77	300	~~12~~ 8-31-10	
(09) SEPT.	77	300	~~12~~ 9-30-10	
(10) OCT.	77	300	~~12~~ 10-31-10	
(11) NOV.	77	300	~~12~~ 11-30-10	
(12) DEC.	77	300	12-31-10	

MO 780-0208 (8-06)

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STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

INJECTION WELL MONITORING REPORT

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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	20554	Altavista Energy, Inc.	Walton #42-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	61.40	285	June 30, 2011	
(07) July	58.84	300	July 31, 2011	
(08) August	70.35	295	August 31, 2011	
(09) September	76.23	290	September 30, 2011	
(10) October	107.97	300	October 31, 2011	
(11) November	88.03	295	November 30, 2011	
(12) December	81.35	300	December 31, 2011	

MO 780-0208 (8-06)

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STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

PLUGGING RECORD

FORM OGC-7

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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	42W	037-20554

LOCATION OF WELL SEC TWN RNG OR BLOCK AND SURVEY	LATITUDE	LONGITUDE	COUNTY
Sec. 4 Township 46 North Range 33 ☐ East ☑ West	N38 50.483	W94 34.483	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	600'	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	552'-565'	Squeezed 91 sks of Portland from surface to 585', 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"	585'	0	585'	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

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