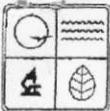


RECEIVED FORM OGC-3

JUL 25 2012



STATE OF MISSOURI GEOLOGICAL SURVEY PROGRAM APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK FOR AN OIL WELL OR GAS WELL

NAME OF COMPANY OR OPERATOR Town Oil Company DATE 07/24/2012

ADDRESS 16205 West 287th Street CITY Paola STATE KS ZIP CODE 66071

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE Bamgrover WELL NUMBER 56 ELEVATION (GROUND) 900

WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES) 475 ft. from South section line 165 ft. from East section line

WELL LOCATION Sec. 21 Township 44 North Range 33 East West LATITUDE 38° 35' LONGITUDE 94° 33' COUNTY CASS

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE 165 FEET DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED - FOR WELL ON THE SAME LEASE 300 FEET

PROPOSED DEPTH 600 DRILLING CONTRACTOR, NAME AND ADDRESS Company Tools ROTARY OR CABLE TOOLS Rotary APPROX. DATE WORK WILL START 08/10/2012

NUMBER OF ACRES IN LEASE 280 NUMBER OF WELLS ON LEASE INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR 0 NUMBER OF ABANDONED WELLS ON LEASE 0

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED? NO. OF WELLS PRODUCING 0 INJECTION 0 INACTIVE 0 ABANDONED 0

STATUS OF BOND SINGLE WELL AMOUNT \$ BLANKET BOND AMOUNT \$ 80,000 OK 140,000 ON FILE ATTACHED

REMARKS: (IF THIS IS AN APPLICATION TO DEEPEN OR PLUG BACK, BRIEFLY DESCRIBE WORK TO BE DONE, GIVING PRESENT PRODUCING/INJECTION ZONE AND EXPECTED NEW INJECTION ZONE; USE BACK OF FORM IF NEEDED)

Table with 2 main columns: PROPOSED CASING PROGRAM and APPROVED CASING - TO BE FILLED IN BY STATE GEOLOGIST. Rows include AMOUNT, SIZE, WT/FT, and CEMENT.

I, the Undersigned, state that I am the President 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 Hester Town DATE 07/24/2012

PERMIT NUMBER 037-20974 APPROVED DATE 8-2-12 APPROVED BY Joseph A. [Signature] DRILLER'S LOG REQUIRED CORE ANALYSIS REQUIRED IF RUN SAMPLES REQUIRED SAMPLES NOT REQUIRED WATER SAMPLES REQUIRED AT E-LOGS REQUIRED IF RUN DRILL SYSTEM TEST INFO REQUIRED IF RUN

NOTE THIS PERMIT NOT TRANSFERABLE TO ANY OTHER PERSON OR TO ANY OTHER LOCATION.

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

DRILLER'S SIGNATURE DATE

OK/KR 7/31/12

# RECEIVED

AUG 01 2012

FORM OGC-4



STATE OF MISSOURI  
MISSOURI DEPARTMENT OF NATURAL RESOURCES  
GEOLOGICAL SURVEY PROGRAM  
**WELL LOCATION PLAT**

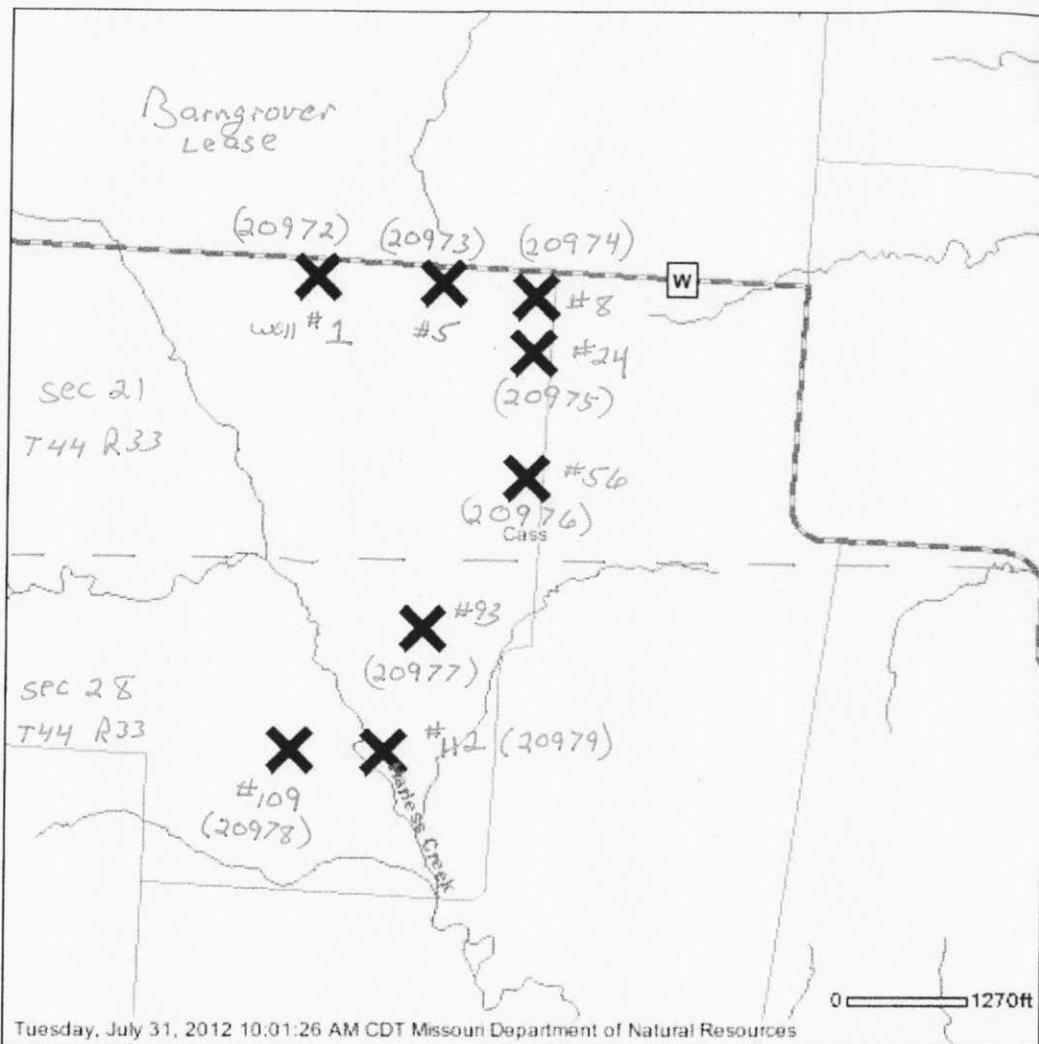
## Mo Oil & Gas Council

OWNER'S NAME <b>DEAN BARNGROVER</b> <span style="float:right">56</span>		
LEASE NAME <b>BARNGROVER</b>		COUNTY <b>CASS</b>
WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES) 475 ft. from <input type="checkbox"/> North <input checked="" type="checkbox"/> South from section line 165 ft. from <input checked="" type="checkbox"/> East <input type="checkbox"/> West from section line		
WELL LOCATION Sec. 21 Township 44 North Range 33 <input type="checkbox"/> East <input checked="" type="checkbox"/> West		
LATITUDE <del>38° 35' 40.4"</del> 38° 35' 40.4" 38.594558°	LONGITUDE <del>94° 33' 44.7"</del> 94° 33' 44.7" -94.562427°	
<p>One Square = 660'</p>  <p>2 1/2 acre spacing</p>		
REMARKS		
<p align="center"><b>INSTRUCTIONS</b></p> <p>On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements. Lease lines must be marked.</p>	<p>This is to certify that I have executed a survey to accurately locate oil and gas wells in accordance with 10 CSR 50-2.030 and that the results are correctly shown on the above plat.</p>	
<p>REMIT TWO (2) COPIES TO: GEOLOGICAL SURVEY PROGRAM PO BOX 250, ROLLA, MO 65402-0250 (573) 368-2143 ONE (1) COPY WILL BE RETURNED</p>	REGISTERED LAND SURVEYOR	NUMBER



- Missouri River
- Mississippi River
- Municipal

- Legend**
- Interstate Highways
  - US Highways
  - State Highways
  - Railroad
  - Major and Minor Roads
  - County Boundary
  - Lakes
  - Major Rivers
  - Rivers and Streams
  - Missouri River
  - Mississippi River
  - Municipal



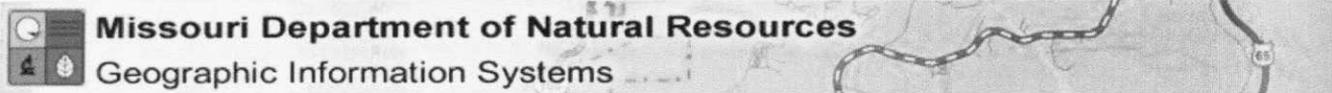
View Scale 1:24,000

DISCLAIMER: Although this map has been compiled by the Missouri Department of Natural Resources, no warranty, expressed or implied, is made by the department as to the data and related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the department in the use of these data or related materials.



Missouri  
Department of  
Natural Resources

P.O. Box 176, Jefferson City, MO 65102  
800-361-4827 / 573-751-3443  
E-mail: [contact@dnr.mo.gov](mailto:contact@dnr.mo.gov)



## Check Location

Select a coordinate format, enter a pair of coordinates in the boxes below it, and then press the SUBMIT button. Please be patient while your information is retrieved. Your coordinates will be converted to the other formats, the information on the right-hand side of the page will be filled in based on your coordinates, and a map will be generated. NOTE: All coordinates must use the North American Datum of 1983 (NAD83).

Submit

Universal Transverse Mercator  
[Zone 15 North]
 

---

 Easting  meters  
 Northing  meters

Decimal Degrees
 

---

 Latitude  °  
 Longitude  °

Degrees, Minutes and Seconds
 

---

 Latitude Degrees  °  
 Latitude Minutes  '  
 Latitude Seconds  "  
 Longitude Degrees  °  
 Longitude Minutes  '  
 Longitude Seconds  "

<b>UTM Zone 15N [Easting, Northing]</b>	[ 363934.1, 4272943.3 ] meters
<b>Decimal Degrees [Lat, Lon]</b>	[ 38.594558°, -94.562428° ]
<b>Deg, Min, Sec [Lat, Lon]</b>	[ 38° 35' 40.4", -94° 33' 44.7" ]
<b>County Name</b>	Cass
<b>County FIPS Code</b>	037
<b>Legal Description</b>	Section 21 T44N R33W
<b>Municipality</b>	NO VALUE
<b>House District</b>	124
<b>Senate District</b>	31
<b>Congressional District</b>	4
<b>MoDNR Region</b>	Kansas City Regional Office
<b>USGS 1:24,000 Quadrangle</b>	Freeman [38094-E5]
<b>8 Digit Watershed</b>	10290108 [South Grand]
<b>10 Digit Watershed</b>	1029010801 [Headwaters South Grand River]
<b>12 Digit Watershed</b>	102901080104 [South Fork South Grand River]
<b>Special Well Drilling Area</b>	Area 2
<b>Ecological Drainage Unit</b>	Central Plains/Osage/South Grand
<b>Level III Ecoregion</b>	Central Irregular Plains
<b>Query Time</b>	5.297 s

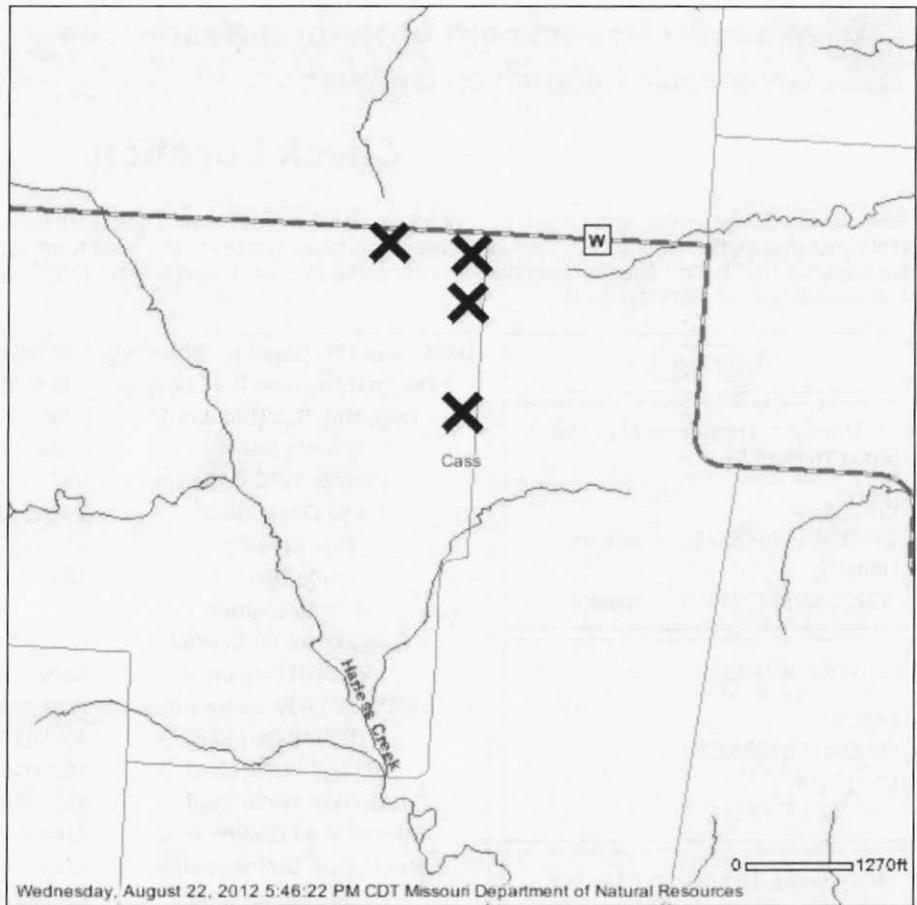
Rows with red text indicate that the input location is too close to a boundary to produce reliable results.

NOTE: A result of 'NO VALUE' is usually an indication that no data was found for the location. For example, not every point in Missouri will lie within a municipal boundary, so some will result in a 'NO VALUE'. If 'County Name' results in 'NO VALUE', your point probably lies outside the state.

**Metadata**

- Interstate Highways
- US Highways
- State Highways
- Railroad
- Major and Minor Roads
- County Boundary
- Lakes
- Major Rivers
- Rivers and Streams
- Missouri River
- Mississippi River
- Municipal

- Legend**
-  Interstate Highways
  -  US Highways
  -  State Highways
  -  Railroad
  -  Major and Minor Roads
  -  County Boundary
  -  Lakes
  -  Major Rivers
  -  Rivers and Streams
  -  Missouri River
  -  Mississippi River
  -  Municipal



View Scale 1:24,000

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E-mail: [contact@dnr.mo.gov](mailto:contact@dnr.mo.gov)



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

FORM OGC-7

OWNER'S NAME Town Oil Company, Inc.		ADDRESS 16205 West 287th Street		
NAME OF LEASE Barngrover		WELL NUMBER 56	PERMIT NUMBER (OGC-3 OR OGC-31 NUMBER) 037-20976	
LOCATION OF WELL SEC TWN RNG OR BLOCK AND SURVEY Sec. 21 Township 44 North Range 33 <input type="checkbox"/> East <input checked="" type="checkbox"/> West		LATITUDE 38.354041	LONGITUDE 94.334474	COUNTY Cass
APPLICATION TO DRILL THIS WELL WAS FILED IN NAME OF: Town Oil Company, Inc.	HAS THIS WELL EVER PRODUCED OIL OR GAS? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHARACTER OF WELL AT COMPLETION (INITIAL PRODUCTION) OIL (BBLS/DAY) 0		DRY? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
DATE OF ABANDONMENT 05/17/2013	TOTAL DEPTH 562	AMOUNT WELL PRODUCING PRIOR TO ABANDONMENT OIL (BBLS/DAY) 0	GAS (MCF/DAY) 0	WATER (BBLS/DAY) 0

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.
Knobtown	Oil/H2O	108-119	Well filled with 60/40 POZ to surface
Warrensberg	Oil/H2O	308-329	Well filled with 60/40 POZ to surface
Cattleman	Oil/H2O	424-442	Well filled with 60/40 POZ to surface

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
6.625	21'	0	21'	N/A	N/A

WAS WELL FILLED WITH MUD-LADEN FLUID? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	INDICATE DEEPEST FORMATION CONTAINING FRESH WATER Hertha Limestone
--	---

NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE		
NAME	ADDRESS	DIRECTION FROM THIS WELL
None		

METHOD OF DISPOSAL OF MUD PIT CONTENTS Air dry and fill with dirt.
---

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

**CERTIFICATE** I, the undersigned, state that I am the Pres of the TOC (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 <i>Lesley Town</i>	DATE 08/19/2013
---------------------------------	--------------------

**DETAIL OF FORMATIONS PENETRATED**

FORMATION	TOP	BOTTOM	DESCRIPTION (SEE * BELOW)
			SEE ATTACHED DRILLERS LOG

<b>NOTE</b>	* 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.
-------------	---

<b>INSTRUCTIONS</b>	Attach drillers log or other acceptable log of well if available. This Well Completion or Recompletion report and well log shall be filed with the Missouri State Geologist not later than 30 days after project completion.
---------------------	---

# Short Cuts

## TANK CAPACITY

BBLS. (42 gal.) equals  $D^2 \times h \times 14$

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

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

\* Need these to figure belt length

WATTS = AMPS

TO FIGURE AMPS: VOLTS

746 WATTS equal 1 HP

# Log Book

Well No. 56

Farm BARN GROVER

Mo. MO.  
(State)

CASS  
(County)

28  
(Section)

44 33  
(Township) (Range)

For

T.O.C.  
(Well Owner)

## Town Oil Company, Inc.

16205 W. 287th St.

Paola, KS 66071

913-294-2125



Thickness of Strata	Formation	Total Depth	Remarks
3	soil	3	
15	Lime shale	18	
4	shale	22	
2	slate	24	DARK, water
22	Lime	46	
5	shale	51	
2	lime	53	
3	shale	56	
6	Lime	62	
4	Shale	66	
4	Sandy Lime	70	No Show
38	Sandy Shale	108	good oil show + odor <sup>limy</sup> solid
11	Sand	119	NO show
59	Sandy shale	178	laminated ok show + odor
12	SAND	190	w/ lime streaks
39	Sandy shale	229	green
6	Shale	235	
1	Lime	236	
3	Shale	239	
3	sand	242	Laminated ok odor + Bleed
18	sandy shale	260	w/ Ben lime strips
5	Lime	265	
8	Shale	273	
4	Lime	277	Brown
4	sandy shale	281	
8	Sandy Lime	289	
4	Shale	293	



