

This permit was originally issued to General Energy Inc. at Linn Co. on 2/18/80. The well is now owned by Town Oil Co.

Missouri Oil and Gas Council

Form OGC-3

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 Co. DATE 12/6/85
Route 4 Paola KS 66071
 Address City State

DESCRIPTION OF WELL AND LEASE

Name of lease Jack Beary Well number 52A Elevation (ground) 1057.9

WELL LOCATION (give footage from section lines)
165 ft. from (N) sec. line 1872.25 ft from (E) sec. line

WELL LOCATION Section 4 Township 46N Range 33W 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: 220 feet

Proposed depth 670 Drilling contractor, name & address _____ Rotary or Cable Tools Rotary Approx. date work will start see note at top of permit

Number of acres in lease 24.5 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 _____ No. of Wells: producing _____
 Address _____ injection _____
 inactive _____
 abandoned _____

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

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

Proposed casing program:				Approved casing -- To be filled in by State Geologist			
amt.	size	wt./ft.	cem.	amt.	size	wt./ft.	cem.
<u>650</u>	<u>4"</u>	<u>16.4</u>	<u>yes</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>20</u>	<u>7 1/4"</u>	<u>22</u>	<u>yes</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>

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 Wallace B. Hines

Permit Number: 20119
 Approval Date: 12/6/85
 Approved By: Wallace B. Hines

- Drillers log required
- E-logs required if run
- Core analysis required if run
- Drill stem test info. required if run
- Samples required
- Samples not 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

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 DEC 16 1985

WATER SAMPLES REQUIRED @

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.

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR General Energy Inc. of Linn Co DATE 12-15-80
Box 216 Mound City KANSAS 66056
Address City State

DESCRIPTION OF WELL AND LEASE

Name of lease JACK BEARY Well number 52A Elevation (ground) 1057.9

WELL LOCATION (give footage from section lines)
165 ft. from (N) sec. line 1872.25 ft. from (E) sec. line

WELL LOCATION Section 4 Township 46 Range 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: 220 feet

Proposed depth: 670' Rotary or Cable tools ROTARY Approx. date work will start 12-20-80

Number of acres in lease: 24.5
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 _____ No. of Wells: producing _____
Address _____ inactive _____
abandoned _____

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

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

Proposed casing program: amt. size wt./ft. cem. Approved casing - To be filled in by State Geologist amt. size wt./ft. cem.

I, the undersigned, state that I am the president of the General Energy Inc. (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 Gilbert McGowan

Permit Number: 20119
Approval Date: 12/18/80
Approved By: Wallace B. Hunt

SAMPLES REQUIRED
 SAMPLES NOT REQUIRED
DEC 18 1980
MISSOURI 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.

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 Emery Energy, Inc.		Address Box 519, Osawatomie, Kansas 66064		
Lease Name Jack Beary		Well Number A-52		
Location 165 ft. ENL, 1872.25 Ft. FEL		Sec. — TWP-Range or Block & Survey Sec. 4 Twp. 46N Range 33W		
County Cass	Permit number (OGC3 number) 20119			
Date spudded 1-8-81	Date total depth reached 1-9-81	Date completed, ready to produce 2-17-81	Elevation (D.F., B.K.R., RT or Gr.) 1057.9 feet Gr.	Elevation of casing hd. flange Same as sur. etc.
Total depth 642 ft.	P. B. T. D. 628.40			
Producing interval (s) for this completion 544 - 582		Rotary tools used (interval) From 0 to T.D. Drilling Fluid used water, air		Cable tools used (interval) From None to None
Was this well directionally drilled? no	Was directional survey made? no	Was copy of directional survey filed? no		Date filed no
Type of electrical or other logs run (list logs filed with the State Geologist) Gamma Ray, Neutron, CCL				Date filed 5/25/1981

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 in.	7 in.	35	21 ft.		
producing	6.25 in.	4 in.	10.6	628.40 ft	70	

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
2.375 in.	539 ft.	none ft.	N/A in.	N/A ft.	N/A ft.	N/A	N/A

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
1	3 1/2 glass	544 - 548	water gel 1	544-548
1	" "	563 - 573, 580-582,	sand 20-40 20	563-573, 580-582,
		580 - 582	sand 10-30	580-582

INITIAL PRODUCTION

Date of first production 2-25-81		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:) No record-see later production report					
Date of test no	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity API (Corr.)	
Tubing pressure	Casing pressure	Cal'ted rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio	

Disposition of gas (state whether vented, used for fuel or sold):

Method of disposal of mud pit contents:

CERTIFICATE: I, the undersigned, state that I am the **Vice-President** of the **Emery Energy, Inc.** (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.

Devon M. Hurst
Signature **Devon Hurst**

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DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
PENNSYLVANIAN SYSTEM			
KANSAS CITY			
Iola Ls.	0	28	White to light gray limestone
Chanute Sh.	28	100	Gray to green shales with gray limestone beds
Cement City Sh.	48	65	Blue, gray limestone
Belton Ss.	94	100	Sandstone
Cherryvale Sh.	100	152	Gray, blue shales
Dennis Ls.			
Winterset Sh.	152	181	Gray, blue coarse limestone
Stark Sh.	181	186	Black, fissile shale
Swope Ls.			
Bethany Falls Ls.	186	208	Gray, fine to coarse limestone
Hush puckney Sh.	208	213	Black, fissile shale
Hertha Ls.	213	223	Gray to blue limestone
PLEASANTON			
Knobtown Ss.	223	384	Gray, green shales sand
Dawson Coal Hor.	352	355	Black, fissile, slaty shale
HENRIETTA			
Alamont	401	428	Gray brown, fine grained limestone with gray shale
Pawnee	428	464	Fine grained, light gray limestone
Peru Ss.	441	446	Sand
Myrick Sta. Ls.	458	463	Gray to brown limestone
Anna Sh.	463	468	Coal to black fissile shale
Fort Scott	468	508	Gray to green shales and limestone
Englevale Ss.	468	496	Fine to medium grained channel sandstone
CHEROKEE			
Upper Cherokee	508		Gray to dark shales
Upper Squirrel	511	526	Fine to medium grained sandstones
Lower Squirrel	562	582	Fine to medium grained sandstones
Bevier Coal Hor.	---	---	Black coal
Lower Cherokee			
Burbank Ss.			Sandstone, irregular
Bartlesville Ss.	582	642 T.D.	Shale, sandy shale, thin sandstone
Core # 1	466	482	
Core # 2	542	562	
Core # 3	562	580	

*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.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well if available.

OILFIELD RESEARCH LABORATORIES

A-52
Beary

-3-

The core was sampled and the samples sealed in plastic bags by a representative of the client.

FORMATION CORED

The detailed log of the formation cored is as follows:

<u>Depth Interval, Feet</u>	<u>Description</u>
<u>MERRYVALE SAND</u>	
466.0 - 466.5	Grayish light brown shaly sandstone.
466.5 - 467.3	Dark brown slightly calcareous sandstone.
467.3 - 468.0	Grayish brown slightly calcareous shaly sandstone.
468.0 - 469.2	Brown slightly calcareous sandstone.
469.2 - 470.8	Light brown slightly calcareous shaly sandstone.
470.8 - 472.3	Light brown and gray laminated sandstone and shale.
472.3 - 481.0	Gray laminated sandstone and shale.
<u>SQUIRREL SAND</u>	
540.0 - 541.0	Gray sandy shale.
541.0 - 542.8	Brown and gray laminated sandstone and shale.
542.8 - 545.5	Gray sandy shale.
545.5 - 546.8	Brown and gray laminated sandstone and shale.
546.8 - 547.7	Dark brown sandstone.
547.7 - 548.3	Brown and gray laminated sandstone and shale.
548.3 - 589.0	Brown slightly calcareous sandstone.
595.0 - 599.7	Light brown slightly calcareous sandstone.

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