

This permit originally issued to Emery Energy, now owned by Tom 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 Tom Oil Co. DATE 12/6/85  
Route 4 Paola KS 66071  
Address City State

DESCRIPTION OF WELL AND LEASE

Name of lease Asjes Well number A-6 Elevation (ground) 1079

WELL LOCATION (give footage from section lines)  
165 ft. from (N) sec. line 74 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: 157 feet

Proposed depth 680 Drilling contractor, name & address \_\_\_\_\_ (Rotary or Cable Tools) Approx. date work will start see note

Number of acres in lease: 110  
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 \_\_\_\_\_ injection \_\_\_\_\_ inactive \_\_\_\_\_ abandoned \_\_\_\_\_  
Address \_\_\_\_\_

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>20'</u>	<u>7"</u>	<u>30#</u>	<u>no</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>660'</u>	<u>2-3/8</u>	<u>4.5</u>	<u>yes</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>

I, the undersigned, state that I am the Partner of the Tom 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 Rusty Town

Permit Number: 20176  
Approval Date: 12/6/85  
Approved By: Wallace B. Huns *Bmw*

- 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

RECEIVED  
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 Emery Energy, Inc. DATE 4-6-81  
R. R. 1 Box 390 Osawatomie, Kansas 66064  
 Address City State

DESCRIPTION OF WELL AND LEASE

Name of lease <b>Asjes, Everet</b>	Well number <b>A-6</b>	Elevation (ground) <b>1079</b>
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WELL LOCATION (give footage from section lines)  
165' ft. from (N) 30 sec. line 714' ft. from (E) 30 sec. line

WELL LOCATION Section <u>4</u> Township <u>46</u> Range <u>33</u>	County <b>Cass</b>
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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: 157 feet

Proposed depth: <b>680'</b>	Rotary or Cable tools <b>Rotary</b>	Approx. date work will start <b>4-20-81</b>
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Number of acres in lease: <b>110</b>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <u>2</u> Number of abandoned wells on lease: <u>0</u>
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If lease, purchased with one or more wells drilled, from whom purchased:  
 Name McGowan Drilling No. of Wells: producing 1  
 Address Mound City, Kansas inactive 0  
 abandoned 0

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>20'</u>	<u>7"</u>	<u>30#</u>	<u>no</u>	_____	_____	_____	_____
<u>660</u>	<u>2-3/8</u>	<u>4.5</u>	<u>yes</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

I, the undersigned, state that I am the V-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.  
 Signature Devon M. Hurst

Permit Number: 20176  
 Approval Date: 5/5/81  
 Approved By: W.R. Wallace B. Hurst

SAMPLES REQUIRED  
 SAMPLES NOT REQUIRED

Note: This Permit not transferable to any other person or to any other location.

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WATER SAMPLES REQUIRED @:

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

APR 09 1981

MO. OIL & GAS COUNCIL

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.

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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 <b>Emery Energy, Inc.</b>		Address <b>Box 519, Osawatomie, Ks. 66064</b>	
Lease Name <b>Everett Asjes</b>		Well Number <b>A-6</b>	
Location <b>165' FNL &amp; 714' FEL</b>		Sec. - TWP-Range or Block & Survey <b>Sec. 4, 46N, 33W</b>	
County <b>Cass</b>	Permit number (OGC3 number) <b>20176</b>		
Date spudded <b>5-4-81</b>	Date total depth reached <b>5-5-81</b>	Date completed, ready to produce <b>9-5-81</b>	Elevation (DF, RKB, RT or Gr.) <b>1079</b> feet Gr.
Total depth <b>602.0</b>	P. B. T. D. <b>597.5</b>	Elevation of casing hd. flange <b>same as surface</b>	
Producing interval (s) for this completion <b>503-519</b>		Rotary tools used (interval) From <b>0</b> to <b>TD</b> Drilling Fluid used <b>air, water</b>	Cable tools used (interval) From <b>None</b> to <b>None</b>
Was this well directionally drilled? <b>no</b>	Was directional survey made? <b>no</b>	Was copy of directional survey filed? <b>no</b>	Date filed <b>N/A</b>
Type of electrical or other logs run (list logs filed with the State Geologist) <b>Gamma Ray, Neutron</b>			Date filed <b>3-23-82</b>

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 1/2"		20'		
Prod.	5 1/2"	2"		603'	85 +	3 Sx gel

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
1" in.	604.4 ft.	— ft.	— in.	— ft.	— ft.		

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
1	1-11/16	81. 503-519	Sand 20-40 - 10 Sand 12-20 - 20	Salt - 1

INITIAL PRODUCTION

Date of first production <b>8-11-81</b>		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): <b>H 5 Churchill Pumping See: Monthly Production Report</b>					
Date of test <b>None</b>	Hrs. tested <b>NA</b>	Casing size <b>NA</b>	Oil prod. during test <b>NA</b> bbls.	Gas prod. during test <b>NA</b> MCF	Water prod. during test <b>NA</b> bbls.	Oil gravity <b>26</b> API (Corr.)	
Tubing pressure <b>0</b>	Casing pressure <b>0</b>	Cal'd rate of Production per 24 hrs	Oil <b>10</b> bbls.	Gas <b>.001</b> MCF	Water <b>10</b> bbls.	Gas-oil ratio <b>0</b>	

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

**used for fuel**

Method of disposal of mud pit contents:

**Hauled away**

CERTIFICATE: I, the undersigned, state that I am the **V-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

DMH/cg

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Signature **Devon M. Hurst**

APR 22 1982

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APR 12 1982

MAY 03 1982

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0-8 - soil  
8-42 - lime  
42-75 - shale  
75-82 - lime  
82-110 - shale  
110-117 - lime  
117-165 - shale  
165-198 - lime  
198-202 - Carb shale  
202-224 - lime  
224-230 - Carb shale  
230-240 - lime (Bertha)  
240-243 - shale  
243-281 - shale  
281-290 - sand  
290-370 - shale  
370-380 - sand  
380-405 - shale  
405-420 - sand  
420-428 - carb shale  
428-433 - lime  
433-436 - carb shale  
436-440 - lime  
440-456 - sand  
456-466 - shale  
466-472 lime  
472-480 carb shale  
480-526 sand  
526-578 shale  
578-594 sandy shale  
594-620 - shale  
620 - TD