

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 C-4 Elevation (ground) 1086

WELL LOCATION (give footage from section lines)
547 ft. from (N) sec. line 882 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: 250 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: amt. size wt/ft cem. 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>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>660</u>	<u>2-3/8</u>	<u>4.5</u>	<u>yes</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

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 Ruthie Town

Permit Number: 20174
Approval Date: 12/6/85
Approved By: Wallace B. Hume *BWH*

- 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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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 4-10-81

R. R. 11 Box 390 Osawatomie Kansas 66064

Address City State

DESCRIPTION OF WELL AND LEASE

Name of lease <u>Asjes, Everet</u>	Well number <u>C-4</u>	Elevation (ground) <u>1086</u>
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WELL LOCATION (give footage from section lines)
547 ft. from (N) 16 sec. line 882 ft. from (E) 10 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: 250 feet

Proposed depth: <u>680</u>	Rotary or Cable tools <u>Rotary</u>	Approx. date work will start <u>4-20-81</u>
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Number of acres in lease: <u>110</u>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <u>6</u>
	Number of abandoned wells on lease: <u>0</u>

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 Steven M. Hurst

Permit Number 20174

Approval Date: 4/5/81
 Approved By: Wallace B. Howe

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

APR 09 1981

SAMPLES REQUIRED
 SAMPLES NOT REQUIRED

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 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 Emery Energy		Address RR1 Box 390 Osawatomie, KS			
Lease Name ASJCS		Well Number C-4		66064	
Location 547' FNL & 882' FEL				Sec. - TWP-Range or Block & Survey Sec 4 T46N 33W	
County Cass	Permit number (OGC3 number) 20174				
Date spudded 11-6-81	Date total depth reached	Date completed, ready to produce 12-6-81	Elevation (DF, RKB, RT or Gr) feet 1086	Elevation of casing hd. flange Same as feet surface	
Total depth 639.0	P. B. T. D. 634.5				
Producing interval (s) for this completion			Rotary tools used (interval) From 0 to TD	Cable tools used (interval) From None to	
Was this well directionally drilled? NO			Was directional survey made? NO		Date filed NO
Type of electrical or other logs run (list logs filed with the State Geologist) Gamma Ray/Neutron/CCH					Date filed 4/5/82

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb ft)	Depth set	Sacks cement	Amt pulled
Surface	9"	6 1/4"		20'		
Production	5 1/4"	2"		640'	83 + 4	gal

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
1" in.	602.4 ft.	582' ft.	— in.	N/A "	N/A "	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	1 1/16" Nozzels	587 to 604	Water Gel - Sand - Sand -	clay - stab -

INITIAL PRODUCTION

Date of first production 1-14-82		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump: #7 Churchill) Pumping - See monthly production Report					
Date of test None	Hrs. tested NA	Casing size NA	Oil prod. during test NA bbls.	Gas prod. during test NA MCF	Water prod. during test NA bbls.	Oil gravity 26 API (Corr.)	
Tubing pressure 0	Casing pressure 0	Cal'ated rate of Production per 24 hrs.	Oil 2 bbls.	Gas 1001 MCF	Water 10 bbls.	Gas-oil ratio 0	

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 Pres** of the **Emery Energy** (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.

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APR 22 1982

Derron M. Hunt
Signature

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Remit two copies; one will be returned

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MAY 03 1982

APR 12 1982

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0-4 soil
4-14 clay
14-53 lime
53-80 shale
80-90 lime
90-118 shale
118-125 lime
125-128 carb shale
128-174 shale
174-205 lime
205-209 carb shale
209-232 lime
232-236 carb shale
236-247 lime (hertha)
247-249 carb shale
249-256 lime
256-346 shale
346-351 lime
351-377 shale
377-379 carb shale
379-395 sand
395-426 shale
426-433 lime
433-436 carb shale
436-439 coal
439-441 lime
441-445 carb shale
445-450 lime
450-452 shale
452-454 sand
454-457 shale
457-466 sand
466-477 shale
477-482 lime
482-487 carb shale
487-500 sand
500-555 shale
555-557 shale
557-586 shale
586-596 sand
596-600 shale
600-609 sand
609-611 shale
611-617 sand
617-640 shale TD