

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR TOSCO Production Finance Corp. DATE 9/24/81
10100 Santa Monica Blvd. Los Angeles California 90067
Address City State

DESCRIPTION OF WELL AND LEASE			
Name of lease <u>John Temple</u>	Well number <u>CH-7</u>	Elevation (ground) <u>969.9</u>	
WELL LOCATION (give footage from section lines) <u>100</u> ft from (N) <input checked="" type="checkbox"/> sec. line <u>2540</u> ft. from (E) <input checked="" type="checkbox"/> sec. line			
WELL LOCATION Section <u>14</u> Township <u>32N</u> Range <u>32W</u>		County <u>Barton</u>	
Nearest distance from proposed location to property or lease line <u>100</u> feet		Distance from proposed location to nearest drilling, completed or applied - for well on the same lease: <u>1320</u> feet	
Proposed depth. <u>350'</u>	Rotary or Cable tools <u>Rotary</u>	Approx. date work will start <u>10/01/81</u>	
Number of acres in lease <u>163</u>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <u>1</u> Number of abandoned wells on lease: <u>0</u>		
If lease, purchased with one or more wells drilled, from whom purchased Name _____ Address _____		No. of Wells: producing _____ inactive _____ abandoned _____	
Status of Bond Single Well <input type="checkbox"/> Amt. _____ Blanket Bond <input checked="" type="checkbox"/> Amt. <u>\$20,000</u> <input checked="" type="checkbox"/> ON FILE <input type="checkbox"/> 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.
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

I, the undersigned, state that I am the Geologist of the CARMEL 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 Jeffery J. Weber
Jeffery F. Weber

DISTRIBUTION: 20043 1 copy - Houston SAMPLES REQUIRED
Permit Number 10/13/81 1 copy - TOSCO SAMPLES NOT REQUIRED
Approval Date: Wallace B. Howe 1 copy - Deerfield SAMPLES NOT REQUIRED
Approved By: Wallace B. Howe P.O. Box 89
Deerfield, MO
64741 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 Limited to Stratigraphic Test Only

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OCT 05 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.

**MISSOURI OIL AND GAS COUNCIL
PLUGGING RECORD**

Form OGC-7

Owner: **TOSCO Production and Finance Corp.** Address: **10100 Santa Monica Blvd. Los Angeles, California 90067**

Name of Lease: **John Temple** Well No.: **CH-7** Sec.: **14 T32N-R33W**

Location of Well: **100 FNL 2540 FEL Elev. 969.9** Sec-Twp-Rge or Block & Survey: _____ County: **Barton**

Application to drill this well was filed in name of: **TOSCO** Has this well ever produced oil or gas: **NO** Character of well at completion (initial production): Oil (bbls/day) _____ Gas (MCF/day) _____ Dry?: **NO**

Date Abandoned: **12/5/81** Total depth: **98'** Amount well producing prior to abandonment: Oil (bbls/day) _____ Gas (MCF/day) _____ Water (bbls./day) _____

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 & depth of plugs used. Indicate zones squeeze cemented, giving amount cement.
Warner	Oil + Water	8'-50' & 75'-98'	

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
NONE					

Was well filled with mud-laden fluid? **Yes** Indicate deepest formation containing fresh water: **NONE**

NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well:
Tony Davis	Rt 1 Iantha, Mo.	North West RECEIVED
		DEC 16 1981

Method of disposal of mud pit contents: **NO Pit Used. (Portable Pit)** MO. OIL & GAS COUNCIL

Use reverse side for additional detail File this form in duplicate with **Well was plugged from T.D. to surface with CLASS A Portland Cement.**

CERTIFICATE: I, the undersigned, state that I am the **Geologist** of the **Carmel 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.

DISTRIBUTION:
1 COPY - HOUSTON
1 COPY - DEERFIELD

Raymond M. Folladay
Signature

P.O. BOX 59
DEERFIELD, MO 64741
1 copy TOSCO

CONFIDENTIAL

Remit two copies; one will be returned
unfil 12-5-82
Bmw

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Tosco Production Finance Corp. Lease John Temple Well No. CH-7F
 Location 2540' FEL & 100' FNL
 Section 14 Twp. 32N Rge. 32W County Barton State Missouri

Elevation, Feet 969.9
 Name of Sand..... Warner
 Top of Core 8.0
 Bottom of Core 88.0
 Top of Sand (Tested) 13.0
 Bottom of Sand 88.0
 Total Feet of Permeable Sand 17.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
4 - 8	3.0	3.0
250 - 500	3.9	6.9
550 - 1000	6.0	12.9
1500 - 5000	5.0	17.9

Average Permeability Millidarcys 1,095.5
 Average Percent Porosity 26.8
 Average Percent Oil Saturation 22.5
 Average Percent Water Saturation..... 68.0
 Average Oil Content, Bbls./A. Ft. 466.
 Total Oil Content, Bbls./Acre..... 9,270.

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OILFIELD RESEARCH LABORATORIES

LOGName Tosco Production Finance Corp. Lease John Temple Well No. CH-7I

<u>Depth Interval, Feet</u>	<u>Description</u>
8.0 - 12.0	Light yellow and light brown friable sandstone.
12.0 - 16.3	Brown friable sandstone.
16.3 - 26.0	Dark brown sandstone.
26.0 - 49.0	Grayish brown sandstone.
49.0 - 49.5	Grayish brown sandstone with some fine coal partings.
49.5 - 50.4	Gray and brown sandstone.
50.4 - 58.0	Gray and light brown laminated shale and sandstone.
58.0 - 68.0	No core.
68.0 - 74.0	Grayish light brown very shaly sandstone.
74.0 - 75.0	Gray shale.
75.0 - 78.0	Gray shaly sandstone (Salt and Pepper).
78.0 - 80.5	Gray and light brown laminated shale and sandstone.
80.5 - 84.3	Grayish light brown shaly sandstone.
84.3 - 88.0	Gray shaly sandstone with fine shale partings.

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Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Tosco Production Finance Corporation Lease John Temple Well No. CH-71

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation		Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water			Ft.	Cum. Ft.		
1	13.5	36.8	3	88	86	*	1.0	1.0	86	*
2	15.5	40.2	23	54	717	*	1.0	2.0	717	*
3	16.7	33.6	42	53	1095	4905.	1.0	3.0	1095	4905.00
4	19.6	33.1	38	50	976	1803.	1.0	4.0	976	1803.00
5	21.6	34.3	20	71	532	2920.	1.0	5.0	532	2920.00
6	23.6	30.1	23	70	537	1752.	1.0	6.0	537	1752.00
7	25.6	31.9	21	73	520	2453.	1.0	7.0	520	2453.00
8	27.5	26.2	23	73	468	613.	1.0	8.0	468	613.00
9	29.4	25.7	10	86	199	915.	1.0	9.0	199	915.00
10	31.6	23.6	12	85	220	876.	1.0	10.0	220	876.00
11	33.6	25.2	18	71	352	637.	1.0	11.0	352	637.00
12	35.6	22.8	26	55	468	826.	1.0	12.0	468	826.00
13	37.5	23.3	14	75	253	314.	1.0	13.0	253	314.00
14	39.4	23.1	14	71	251	588.	1.0	14.0	251	588.00
15	43.5	21.6	25	72	419	253.	1.0	15.0	419	253.00
16	47.5	19.8	21	75	323	415.	1.0	16.0	323	415.00
17	49.6	20.1	20	77	312	358.	0.9	16.9	281	322.20
18	77.5	21.1	43	37	704	4.5	1.0	17.9	704	4.50
19	81.5	21.2	21	68	345	4.8	1.0	18.9	345	4.80
20	87.4	21.1	32	56	524	7.1	1.0	19.9	524	7.10

NOTE" * PERMEABILITY SAMPLES UNOBTAINABLE.

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Oil & Gas Council

Permit #: 20043

Date Issued: 10-13-81

County: Barton

Date Cancelled: _____

CONFIDENTIAL UNTIL: _____

Date Plugged: 12-5-81

OGC FORMS	Date Received
1	
2	
3	<u>10-25-81</u>
3i	
4	
4i	
5	
6	
7	<u>12-5-81</u>
8	
11	
12	
Misc. Form 2	

COMMENTS:

*strat test
Tm@TD Warner*

	TYPE	ID #	Date Received
Logs	<u>drillers</u>		
Samples	<u>chip</u>		
	<u>core</u>		
Analyses	<u>water</u>		
	<u>core</u>		

Additional Submitted Data:

sat & perm