

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>W.V. Denny</u>	Well number <u>CH-1</u>	Elevation (ground) <u>975.7</u>	
WELL LOCATION (give footage from section lines) <u>1320</u> ft. from (S) sec. line <u>100</u> ft. from (W) sec. line			
WELL LOCATION Section <u>11</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>NA</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>81.3</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 <u>Geologist</u> of the <u>CARMEL ENERGY, INC.</u> (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 <u>Jeffery F. Weber</u>			

**DISTRIBUTION:**  
 Permit Number 20037 1 copy - Houston  SAMPLES REQUIRED  
 Approval Date 10/2/81 1 copy - TOSCO  
 Approved By J.R.S. Wallace B 1 copy - Deerfield  SAMPLES NOT REQUIRED  
 P.O. Box 89  
 Deerfield, MO  
 64741 WATER SAMPLES REQUIRED @  
 MO OIL & GAS COUNCIL

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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

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 Finance Corp.* Address: *10100 Santa Monica Blvd. Los Angeles, California 90067*

Name of Lease: *W.V. Denny* Well No.: *CH-1* Sec-Twp-Rge or Block & Survey: *Sec. 11, T32N-R32W*

Location of Well: *1320 FSL, 100 FWL Elev. 975.7* 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: *121'* 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.
<i>Warner</i>	<i>Oil + water</i>	<i>40' - 117'</i>	

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
<i>NONE</i>					

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:
<i>W.V. Denny</i>	<i>Iantha, Mo.</i>	<i>South East</i>

DEC 18 1981

Method of disposal of mud pit contents: *No pit used. (Portable pits)* 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 *Carnel 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.

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

**CONFIDENTIAL**  
until 12/5/82  
Bmw

*Ronald M. Holladay*  
Signature

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DEC 18 1981

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**Oilfield Research Laboratories**  
**GENERAL INFORMATION & SUMMARY**

Company Tosco Production Finance Corp. Lease Denny Well No. CH-1  
 Location 100' FWL & 120' FSL  
 Section 11 Twp. 32N Rge. 32W County Barton State Missouri

Elevation, Feet ..... 955.1  
 Name of Sand..... WARNER  
 Top of Core ..... 45.0  
 Bottom of Core ..... 105.0  
 Top of Sand ..... 45.0  
 Bottom of Sand ..... (Tested) 104.0  
 Total Feet of Permeable Sand ..... 21.1

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 6	8.0	8.0
10 - 15	4.0	12.0
35 - 90	4.0	16.0
135 - 200	3.0	19.0
200 - 205	2.1	21.1

Average Permeability Millidarcys ..... 58.9  
 Average Percent Porosity ..... 18.4  
 Average Percent Oil Saturation ..... 39.3  
 Average Percent Water Saturation ..... 50.6  
 Average Oil Content, Bbls./A. Ft. .... 576.  
 Total Oil Content, Bbls./Acre ..... 12,163.

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## OILFIELD RESEARCH LABORATORIES

LOGName Tosco Production Finance Corp. Lease Denny Well No. CH-1

<u>Depth Interval, Feet</u>	<u>Description</u>
45.0 - 46.1	Grayish black carbonaceous sandstone with shale partings.
46.1 - 54.7	Brownish black slightly calcareous carbonaceous sandstone with intermittant shale partings.
54.7 - 56.0	Brownish black & gray laminated shale and sandstone.
56.0 - 62.1	Black carbonaceous slightly calcareous sandstone with intermittant shale inclusions.
62.1 - 67.0	Black carbonaceous slightly calcareous sandstone.
67.0 - 75.9	Black carbonaceous sandstone.
75.9 - 77.0	Grayish black carbonaceous sandstone with shale partings.
77.0 - 79.7	Grayish black carbonaceous slightly shaly sandstone.
79.7 - 84.6	Black carbonaceous sandstone with intermittant shale partings.
84.6 - 93.7	Grayish black carbonaceous shaly sandstone with intermittant fine shale partings.
93.7 - 94.1	Brown and gray calcareous laminated sandstone and shale.
94.1 - 101.5	Grayish black carbonaceous shaly sandstone with fine shale partings.
101.5 - 105.0	Grayish black carbonaceous sandstone with shale partings.

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Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Tosco Production Finance Corp. Lease Denny Well No. CH-1

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	Total			Ft.	Cum. Ft.		
1	45.6	22.4	32	59	91	556	203.	1.1	1.1	612-556	223.30
2	47.5	21.1	57	37	94	933	199.	1.0	2.1	933	199.00
3	49.5	21.5	59	36	95	984	203.	1.0	3.1	984	203.00
4	51.5	17.1	64	29	93	849	141.	1.0	4.1	849	141.00
5	53.6	19.4	52	44	96	783	135.	1.0	5.1	783	135.00
6	57.5	19.0	45	50	95	663	86.	1.0	6.1	663	86.00
7	60.5	19.4	43	46	89	647	66.	1.0	7.1	647	66.00
8	63.5	27.8	56	36	92	1208	84.	1.0	8.1	1208	84.00
9	66.5	18.1	46	50	96	646	11.	1.0	9.1	646	11.00
10	69.5	18.6	41	53	94	592	35.	1.0	10.1	592	35.00
11	72.6	17.7	36	53	89	494	14.	1.0	11.1	494	14.00
12	75.5	16.1	38	54	92	475	10.	1.0	12.1	475	10.00
13	78.5	15.7	31	57	88	378	4.1	1.0	13.1	378	4.10
14	81.5	16.9	31	61	92	406	12.	1.0	14.1	406	12.00
15	85.5	18.1	46	38	84	646	4.7	1.0	15.1	646	4.70
16	88.5	16.0	26	53	79	323	1.9	1.0	16.1	323	1.90
17	91.5	15.3	21	65	86	249	3.4	1.0	17.1	249	3.40
18	94.5	18.3	19	57	76	270	5.0	1.0	18.1	270	5.00
19	97.4	14.9	27	59	86	312	0.78	1.0	19.1	312	0.78
20	100.6	16.8	33	63	96	430	1.7	1.0	20.1	430	1.70
21	103.4	15.4	22	61	83	263	1.8	1.0	21.1	263	1.80

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Permit #: 20037

Date Issued: 10-13-81

County: Barton

Date Cancelled: \_\_\_\_\_

CONFIDENTIAL UNTIL: \_\_\_\_\_

Date Plugged: 12-5-81

OGC FORMS	Date Received
1	
2	
3	<u>10-5-81</u>
3i	
4	
4i	
5	
6	
7	<u>12-18-81</u>
8	
11	
12	
Misc. Form 2	

COMMENTS:

*From: W&A/R  
strat test*

	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*